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Б	Prakritinirnaya Abhidhá- na; or, an Illustrated and Comprehensive Dictionary of the Ben- gali Language.	English, and	Banerji and Purna Chan-	Language (diction- ary).	Printed and published at 22, Jhámápukar Lane, Calcutta.	
6	Subjects appointed for the First Examination in Arts in Sanskrit.	ditto	Nilmani Mu- kherji, M.A., B.L.	Literature	Printed and published at 8, Dixon's Lane, Calcutta.	Printed by Bihárilál Chekrabarti, and publishe by Shashibhusan Chaterji.
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1	The Improvement of Knowledge.	English, Hindi, and Urdu.	Zamurrad Lál	Language	Printed and published at the Behar Bandhu Press, Bánkipur.	
		Ordu.			PÁLI, PRÁ	KRIT, AND SANSKRI
3	Agam Sangraha. Sacred Compilation.	Páli, Prákrit, and Sanskrit	Satyabrata Sámasrami.	Religion,	Printed at 16, Ghosh's Lane, Calcutta, and pub- lished at Murshidábád.	Satyabrata Samasrami
		Calibrit			HINDI,	QUADRI-LI PÁLI, PRÁKRIT, AN
1	Ratna Ságara. The Ocean of Gems. Part I.	Hindi, Páli, Prákrit, and	Pandit Mukti- kamal.	Miscel- laneous.	Printed at 14, Goábágár Street, and published a Barabázár, Calcutta.	Printed by Gopal Chand De, and published t the Editor.
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117	Bhárati. A Monthly Review. Vol. III. No. 7.		Dwijendra Náth Thákur	Miscella- neous.	Printed at 21, Bowbazar Street, and published a 6, Dwáraká Náth Thá kur's Lane, Calcutta.	Co., and published
118	Ditto ditto. Vol. III.	ditto	ditto	ditto	Printed at the Adi Brah- ma Samaj Press, and	Printed by Kalidas Cha rabarti, and publish by Prasanna Kum
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Dec. 21st	16	4to	1st	500	ditto	0 6 0	Srikrishna Pra-Osanna Sen, of Monghyr.	Gives a portion of a work called Ramgitá, a description of the mixed castes based upon Manu. together with some letters on the same subject, &c.	7
00. 1	00		1 4	500	114	0.10 ()			
,, 22nd	32	4to	1st	500	ditto	0 12 0	ditto I	Ramgitá is continued and lec- tures and letters on the sub- ject of the repagation of the old Hindu faith are pure	8
eb. 1st	16	4to	1st	600	ditto	0 6 0	ditto!	duties and occupations of Bráh- mans as prescribed in the Hindu Shástras.	,



	1	2	3	4	ь. Б	6
Number.	The title of the book and the contents of the title page, with a translation into English of such title or contents when the same are not in the English language.	The place of printing and the place of publication.	The name or firm of the printer, and the name or firm of the publisher.	The date of issue from the press, or of the publication,	The name and residence of the proprietor of the copyright or of any portion of such copy- right.	The date on which the entry was registered.
				1879.	A. A.	1879.
431	Jatila Hastákshara; Asanjukta Barna. In- volved handwriting; uncompounded letters.	Printed at 145, New Chinabazar, and published at the Sanskrit Press Depository, 3, Mirzapore	Printed by Chandra Kumár Mu- kherji, and pub- lished by Jadu Náth De.	7th November	Jadu Náth De, 150, Mániktalá Street, Calcutta.	3rd December.
432	Scrap Book. Illustrated with seven mythological Pictures.	Street, Calcutta. Printed at 309, Bowbazar Street, and published at 185, Bowbazar Street, Calcutta.	Printed by G. C. Bose & Co., and published by Bagchi and Friends.	18th ,,	Bagchi and Friends, 185, Bowbazar Street, Calcutta.	3rd ,,
433	Parimiti. Mensuration		Printed and pub- lished by Behári- lál Banerji.	2nd December	Kshetra Náth Bhattáchárjya, Sukea's Street, Calcutta.	19th ,,
434	Tamim Golál o Chattan Chhilal. (Ishknámá.)	Printed and published at the Dacca Syadi Press.	Printed and published by Mahamad Asgar Hossein.	14th ,,	Mahomed Asgar Hossein, at present of Agá Fazl Ali's Bazar, Dacca.	15th "
435	Bálya Shikshá. Instruc- tion for Children.	Printed and published at the Calcutta New School Book	Printed and published by B. L. Chakrabartti.	1879	Rám Sundar Ba- sák of Nawab- pur, Dacca.	29th "
436	Bibidha Shikshá. Variety of Instruction.	Press. ditto	ditto	Ditto	ditto	29th ,,
437	Ingland ká Itihás. History of England.	Printed and pub- lished at the Branch Budho- daya Press, Ban-	Printed by Naba- kumár Banerji, and published by Gobinda Chandra	1880. 4th January	Gobinda Chandra Sinha of Banki- pore.	1880. 5th January.
<b>43</b> 8	Lakshmishwar Champu. Poem in paise of the Mahareja of Dar- bhángá.	kipore. Printed and published at 9, Mallik Street, Calcutta.		1st ,,	Ramá Bái of Gangamul in Mysore.	9th ,,
439	Prakriti Nirnaya Abhi- dhán. A Bengali Dic- tionary.	Printed and published et 22, Jhá- mápukar Lane, Calcutta.		8th "	Baradá Prasád Majumdar and Balarám Pál, both of Calcutta.	24th ,,
\$50	Ráibánul Korán. The Beautiful Korán.	lished at the Nasim Sahar, Patna City Press, Goozree.	Printed by Sáyyed Wazeer Ally, and published by Sayyed Ibn Hossein.	17th ,,	Sayyed Ibin Hossain of Mahallah Dewan, Patna City.	27th ,,
441	Bálya Shikshá. Instruc- tion for Children.	Printed and published at the Calcutta School Press.  Printed and published Reverse Book	Printed and published by B. L. Chakrabartti.	January	Rám Sundar Ba- sák of Nawab- pur, Dacca.	29th ,,
442	Subhankari; or Indige- nous Arithmetic in Ben- gali.	Printed and published at 44, Amherst Street, Calcutta.	Printed and published by Bihári Lál Banerji.	18th January	Kshetra Náth Bhattáchárjya. 70-1, Sukea's Street, Calcutta.	11th February,
443	Nidánártha Prakasiká. The Explanation of the medical work called Nidán.	Printed at 17, Brindában Ba- sák's Street and published at 115, Chitpur Road, Calcutta.	Printed by Fakir Chánd Dás, and published by Bishwambhar Láhá.	1879. 15th December	Bishwambhar Láhá, 333, Chit- pore, Calcutta.	12th "
444	Ayurvedokta Nutan Chikitsa Darsan. The New System of Treatment according to the Ayurved.	Ditto	ditto	1878. 4th June	ditto	12th "
445	Nutan Drabyaguna Dar- pan. The New Mirror of the Properties of things.	Ditto	ditto	9th September	ditto	12th "

	1	2	3	4	5	6
Number,	The title of the book and the contents of the title-page, with a translation into English of such title or contents when the same are not in the English language.		The name of firm of the printer, and the name or firm of the publisher.		The name and residence of the proprietor of the copyright or of any portion of such copy- right.	The date on which the entry was registered.
				1878.		1880.
446	Paramartha Jnan Ratná- kar. The Mine of Reli- gious Knowledge.	Printed at 17, Brindaban Ba- sák's Street, and published at 115, Chitpur Road, Calcutta.	Printed by Fákir Chánd Dás, and published by Bishwambhar Láhá.		Bishwambhar Láhá, 333, Chit- pur Road, Cal- cutta.	12th February.
447	Prabhás Jajna Námak Grantha. The book called the Sacrifice at Prabhás.	Ditto	Printed by Ambiká Charan Chatterji, and published by Bishwambhar Láhá.	1877. 27th May	ditto	12th ,,
448	Prabhás Jajna. Part II. The Sacrifice at Pra- bhás.	Ditto	ditto	23rd June	ditto	12th ,,
449	Bhaishajya Ratna. Medical Gem.	Printed at 317, Chitpur Road, and published at 319. Chitpur Road, Calcutta.	Printed by Káli Charan Dás and published by Shashi Bhusan Ghosh and Brother.	1879. 17th November	Shashi Bhushan Ghosh and Brother, 317, Chitpur Road, Calcutta.	20th ,,
450	Sanskrita Páth. Part I. Sanskrit Reader.	Printed and pub- lished at 24, Grish Bidyárat- ná's Lane, Cal- cutta.	Printed by Harish Chandra Kabi- ratna, and pub- lished by Girish Chandra Bidyá- ratna.	1878. 20th September	Harish Chandra Kabiratna, 24, Grish Bidyáratna's Lane, Calcutta.	21st "
451	Khawasul Ushya, i.e. Therapeutics.	Printed and published at the Patna City Press, Goozree.	Printed and pub- lished by Sayyed Wazir Ali.	1880. 1st February	Sayyed Wazir Ali, of Goozree, Patna City.	1880. 9th February
452	Sanskrita Páth. Part II. Sanskrit-Reader.	Printed and published at 24, Girish Bidyárat- na's Lane, Cal- cutta.	Printed by Harish Chandra Kabi- ratna, and pub- lished by Girish Chandra Bi yá- ratna.		Harish Chandra Kabiratna, 24, Girish Bidyárat- na's Lane, Cal- cutta.	21st "
453	Bhaishajya Ratnábali. Part I. Medical Gems.	Printed at 20, Jhá- mápukar Lane, and published at 337, Chitpur Road, Calcutta.	Printed by K shetra Mohan Mukher- ji, and published by Akshaya Ku- már Ráya & Co.	1880. 15th February	Akshaya Kumar Ráya & Co., 337, Chitpur Road, Calcutta.	2nd May
154	Phrases and Idioms, containing explanations in English and Bengali.	Printed at 35, Beniatola Lane, and published at 3, Mirzapur Street, Calcutta.	Printed by Bipin Bihári Ráya and published by the Sanskrit Press Depository.	1879. 17th December	Krishna Chandra Ráya, Amherst Street, Calcutta.	8th
L55	Brihat Nutan Mahabhá- rat, Khila Haribansa Parba. New Large Mahabhárat including the Haribansa.	Printed at 17, Brindában Ba- sák's Street, and published at 115, Chitpur Road, Calcutta.	Printed by Fakir Chánd Dás, and published by Bishwambhar Láhá.	1880. 9th March	Bishwambhar Láha, 333, Chit- pur Road, Cal- cutta.	11th "
156	Life of Mahárájá Naba Krishna Deb Báhádur.	Printed and published at 249, Bowbazar Street, Calcutta.	Printed by I. C. Bose & Co., and published by Bi- pin Bihári Mit- tra.	1879. 31st December	Bipin Bihári Mitra of Calcutta.	22nd "
57	Euklid Ká Jyamiti Tattwa; or, Euclid's Elements of Geometry. Book I. Part I.	Printed and pub- lished at the Branch Budho- daya Press, Banki- pore.	Printed by Naba Kumár Banerji, and published by Sajiban Lál, B.A.	1880. 10th March	Sajiban Lál, B.A., of Bankipore.	Not given.

No.	LANGUAGE.		Book		PAMPHL	ETS.		
avo.	LANGUAGE.		Non-educational.	Educational.	Non-educational.	Educational.	Total.	
10.00	Uni-Linguals.			1-4				
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1	Arabic			*****	vn er a	1	1	
2	Assamese	***	60	31	120	89	300	
3 4	Bengali		11	11	14	8	44	
5	Hindi		7	î	6	4	18	
6	Musulmáni-Bengali	***	8		13	******	21	
7	Persian Sanskrit		1 5	3	8	2	3 16	
8	Urdu	***		1	4		5	
10	Uriyá	***	1		3	5	-9	
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1 2	Bengali and English Bengali and Sanskrit		41	3	4 -		48	
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4	English and Urdu			1	00.00		1	
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1	TEI-LINGUAL PERIODICALS.  Bengali, Hindi, and Sanskrit Periodicals		3				3	
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#### CHUNDER NATH BOSE,

Librarian of the Benyal Library and Keeper of the Catalogue of Books under Section 18, Act XXV of 1867.



# The Calcutta Gazette

EXTRAORDINARY.

MONDAY, APRIL 12, 1880.

Cobernment of Bengal.

#### NOTIFICATION.

The 12th April 1880.—It is notified for general information that His Honor the Lieutenant-Governor of Bengal will leave Calcutta (Sealdah Station) for Darjeeling at 4-45 P.M., on Tuesday, the 13th instant.

By order of the Lieutenant-Governor of Bengal,

HORACE A. COCKERELL, Secretary to the Government of Bengal.



# SUPPLEMENT TO

# The Calcutta Gazette.

WEDNESDAY, JANUARY 7, 1880.

#### OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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#### Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 3rd January 1880.

N	io.	District, a		e of	100	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and
BEN	NGA:	<b>G.</b>		d		30	
		Western	Distri	ota.	1		
+c :	1	Burdwan,	Jan.	3	'80	Nil	Weather—seasonable. Late rice nearly all cut Outturn will be good in Culna and Cutwa sub-divisions; fair in Raneegunge; not good in Sudder sub-division. Prospects of cold-weather crops fair. A few deaths from cholera
AS DITE.	2	Bankoora,	<b></b> .	3		0.04	in Cutwa. Fever still lingers in Culna.  Weather—warm in early part of week, but latterly cloudy. Harvesting of winter rice completed; outturn fair. Rubbee doing well. New common rice 15 to 22 seers per rupee. Public health good, but cholera and small-pox still in Bishenpore sub-division, and a few isolated cases cholera in Bankoora town.
ВСКОМАЯ	3	Beerbhoom,		3		0.01	Amun harvest nearly complete. Rubbee crops on ground in good condition, except sugarcane. A good deal of cholera still about.
Be	4	Midnapore,		3		0.08	Weather—cloudy and cold. Reaping nearly finished with not unsatisfactory results.
	5	Hooghly,			•	Nil	Weather—very cold and cloudy. Prospects of winter crops good. Fever abated. Cases of small-pox and cholera in sub-division Scrampore, and cholera in station Singoor.
	\	Howrah,		5		Nil	Weather—seasonable. Rice harvest going on rapidly. Other crops favorable. Prices falling.

2	lo.	District .ar		te a	ſ	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and
27	-		N	500			
E	NGA	L(Continued	ł.)				
		Central L	)istric	ts.			
1	6	24-Pergunnah	s, Jan	. 3	<b>'8</b> 0	NII	Weather—cold. Prospects of amun and winter crops good. Amun harvestir nearly over. Public health generally good. Some cases of cholera reports from Diamond Harbour.
	7	Nuddea,	,,	3	,,	Nil is	Weather—cold and fine, except two days which have been cloudy. Ann gathered. Kalai and moog being cut; outturn good Rain required for wheat, oats, and other coming crops.
Cassing Co. Link.	8	Jessore,	,,	.3	30	Nil	Weather—cold, and during latter part of week cloudy. Rain apparent threatening. Amun nearly harvested, with good outturn. Prospects of wints crops at present good. Many cases of cholera still in Magoorah and Bagirha sub-divisions; sporadic cases in other parts of district.
-	9	Moorshedabad	l, "	3	,,	Nil	Weather—cloudy; cold nights Rubbee crops doing well. Fever still provalent in than Burwa. Cholera still in Berhampore town.
1	10	Dinagepore,	Jan.	. 2	'80	Nil	Weather—cold; no rain. Three-fourths of winter rice harvested. Prospects of rubbee sowings good.
	11	Rajshahye,	,,	3	,,	Nil	Weather—raining slightly at close of week. Cutting of amun fast proceeding outturn above an average. Spring crops thriving. Harvesting of mashkale commenced. Common rice 16 seers per rupee.
	12	Rungpore, Gaibanda	**	2		Nil 0.21	Weather-cold. State and prospects of crops satisfactory. Public health good.
		Bagdogra				0.12	>
	13	Bogra,	,,	3	"	0.27	Weather—chilly and cloudy. State and prospects of crops very good. Som rain on night of 2nd, which will be beneficial to rubbee crops.
1	14	Pubna,	"	3	,,	0.05	Weather—fine; cloudy at times. Winter rice cut. Spring crops doing we Public health fair; cholera abated.
	15	Darjeeling,	***	3	,,	0.23	Weather—cloudy at beginning of week, last three days clear and bright. Nearl three-fourths of haimanti dhan gathered in. Mustard, fil, wheat and barle doing well and prospects good.
	16	Julpigoree,	***	3	,,	0.04	Weather—generally cold, and foggy in mornings and evenings of haimanti reaped. Winter crops progressing favorably. In Alipore subdivision a little rain now would do no harm.
1		Cooch Behar, Dinhatta	**	1	33	0 12 A few drops.	Weather—very cold, Three days of week cloudy. Slight rain on 28th an 29th. Late rice being still cut. Rain done good to all standing cold-weathe crops, prospects of which satisfactory. Small-pox broken out in som
1		Meckligun	ge			, ,,	places.
11	ik.	7	N-A-de	4.			
1	17	Eastern L	Jan.		'80	Nil	Weather -cold. State and prospects of crops good. Kalai being gathered an
-	18	Furreedpore,	**	4	**	Nil	Weather—seasonable. Crops good. Health much improved.
1	19	Backergunge,	"	1	,,	Nil	Weather—fair and bright. About three-fourths of amun now cut. New ric 14 to 18 seers a rupee. Sporadic cases of cholera in several thanas.
	20	Mymensingh,	19	2	"	Nil	Weather—seasonable. Crops all good.
1	21	Tipperah,	,,	2		Nil	Weather—fair. Nearly whole of amun reaped. Sugarcane, mustard, and other winter crops promise well.
	- 1	Marin water w	Y	ni.	200	0.05	Weather-cloudy from Friday (2nd); to-day (6th) fair. Amun damaged to son
1	22	Chittagong,	Jan.	6	*80	0.85	extent by rain. Cold-weather crops doing well. Cholera still prevailing i south.
1	23	Noakholly,	,,	2	"	Nil	Weather—very cold. Mornings very foggy. Reaping of amun continues. Winter crops progressing well. Public health good.
1	24	Chittagong Hi Tracts,	ll Dec.	30	79	Nil	Weather—seasonable. Very cold throughout week. Forgy up to 9 o'clock i morning. Gathering of amun still continues. Prospects of mustard an other cold-weather crops good.
1		Hill Tipperah,		31	79	Nii	Weather—seasonable. Amun nearly harvested. Cold-weather crops doing well-public health good.

	No.	District, at	nd da	te o	•	Rainfall at Sudder Station in inches.	
BK	HAR	of sample				S.	
		Patna,	Jan.	3	'80	Nil	Weather—seasonable. Prospects favorable, but rain would now do good to
	26	Gya,		3		Nil	Weather—cold. Maximum reading in shade 83.8°. Aghani dhan being cut. A full 16-anna crop in Jehanahad sub-division. A good shower of rain required
	27	Shahabad,	,,	3		Nil	for rubbee. Health of plough-cattle good. Public health generally good.  Weather—cloudy, with light west wind. Prospects of rubbee promising A little rain will materially benefit standing crops. Harvesting of aghani rice still
PATRA DIVE.	28	Durbhunga,		3	,,	Nil	proceeding. Pressing of sugarcane going forward. Public health good.  Weather—cloudy and seasonable. Aghani dhan coming into market. In places harvesting completed. Rubbee continues favorable, but a little rain will do much good. Prices rising. Public health good.
PA	29	Mozufferpore, Seetamurl	hee	3		Nil 0·15	Weather—cold and fine. Outturn of rice crop very good. Rubbee promising. Public health good.
	30	Sarun,		3	,,	Nil	Weather—seasonably cold, and cloudy at times. East and west wind. Rahur, pens, wheat, barley, sugarcane, gram and cotton good sugarcane being cut and put into mills. Rain much wanted for rubbee crops. In some places they are irrigated. Prices stationary. Public health good.
	31	Chumparun,	. ,,	3	13	0.1	East wind and rain on Sunday, 28th December; afterwards fine and cool. Crops all very good. Health better.
- 1	32	Monghyr,	Jan.	3	,,	Nil	Weather-cloudy, and rain threatening. Prospects of crops continue good. A little rain would be beneficial.
BHAGULPORE DIVISION.	33	Bhagulpore,		3	,,	Nil	Weather—seasonably cold, and cloudy at times. Harvesting of paddy nearly completed with good outturn. Prospects of rubbee crops good. Public health excellent.
PORB	34	Purneah,	,	3	,,	Nil	Weather—seasonable. A little rain in north. State and prospects of crops everywhere good.
Вилет	35	Maldab,	"	3	,,	0.08	Weather—colder, and latterly cloudy. A few drops of rain last night. Crops being harvested. Coarse rice 18 seers per rupee. Public health good throughout district.
	36	Southal Pergh	8, ,,	4	n	Nil	Weather—cloudy at times; warmer than usual. Dhan harvest progressing favorably.
OR	ISSA						
		Cuttack,	Jan.	3	<b>'</b> 80	Nil	Weather—cloudy and cold. Rice being harvested. Winter crops progressing
DIVE.							well. Harvesting of moong commenced. Mustard in flower. A few cases of fever reported. Many cases of small-pex in town. Common rice 15% to 21 seers per rupee.
ORISSA DIVIN.	38	Pooree,	**	1	,,	Nil	Weather—cold and seasonable. Prospects of sarud and winter crops good. A few cases of small-pox reported. Prices stationary.
	39	Balasore,	,,	2	,,	Nil	Weather—seasonable. All crops promise well. Rice harvest far advanced.
201	OTA	NAGPORE.					
H	UIA	South-West		aties		1	
	40	Hazareebagh,	43 A	2	'80	Nil	Weather—cold and occasionally cloudy, with a north-west wind. Prospects of rubbee crops promising. Public health good.
	41	Lohardugga,		8	"	Nil	Weather—seasonable. Rain wanted for rubbee crops. Sky now overcast, and a good fall hoped for. Prices stationary.
	42	Singbhoom,		2		Nil	Weather-seasonable. State and prospects of crops favorable.
	43	Manbhoom,	n	8		Nil	Weather—fair and cool. Since yesterday (2nd) cloudy and warmer. A few drops of rain last night. Paddy nearly all cut. Winter crops promise well. Cattle disease in south of district (Manbazar).

Published for general information.

CALCUTTA, STATISTICAL DEPT., The 6th January 1880. A. Mackenzie, Secy. to the Govt. of Bengal.

#### RETAIL PRICES-CURRENT of Food-grains, Firewood, and Salt in the under

QUANTITIES PER RUPEE BY

				w	HEAT				BARL	ET.		Ri	CE, I	BBST	sokt		Ric	R, Co	ммс	ox.		изн М воо, В			AT MIL		RAC	BE MIN	MURW
Number.	DISTRICT	S.	Present return.		Next preceding return.	Corresponding return	of last year.	Present return.	Next preceding return.	e distribute	last year.	Present return.		Next preceding return	Corresponding return	of last year.	Present return.	Nor preceding return		Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return,	Next preceding return.	Corresponding return
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8	Furreedpore*	-		***						-					***	1.		***	1				***						
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0.1	Mymensingh	10	P	10	0 1	0 0					10	8 0	16	0	10 8	18	0	18 0	11	0									

In the interior the prices range as follow:—Wheat 11 to 12 seers, barley (in Cutwa) 16 seers, best rice 13 to 15 seers, common rice 16 to 19 seers, and gram 12 to 13½ seers, and gram 8 to 12 seers.

But the interior the prices range as follow:—Wheat 9 to 12 seers, barley 17 to 34 seers, best rice 12 to 22 seers, common rice 15 to 22 seers, maize or Indian-corn 28 to 32 seers, and gram 8 to 12 seers.

C In the interior the prices range as follow:—Wheat 9 to 14 seers, best rice 13 to 18 seers, common rice 14½ to 20½ seers, and gram 10 to 13 seers.

In the interior the prices range as follow:—Wheat 10¼ to 10½ seers, barley 16 seers, best rice 6½ to 8½ seers, common rice 10½ to 16 seers, and gram 12½ to 13 seers.

In the interior the prices range as follow:—Wheat 10 to 13 seers, barley 13½ to 20 seers, best rice 7½ to 12½ seers, common rice 13 to 17 seers, and gram 10 to 11½ seers.

The interior the prices range as follow:—Wheat 6 to 8 seers, best rice 7 to 16 seers, common rice 13 to 18 seers, and gram 8 to 10 seers.

G In the interior the prices range as follow:—Wheat 11 to 11½ seers, barley (in Jungypore) 18 seers, best rice 12 to 17 seers, common rice 15 to 18 seers, bulrush millet (in Jungypore) 23½ seers, and gram 12 to 14 seers.

AVERAGE WAGES PER MONTH.

#### entioned Districts of Bengal for the Fortnight ending 31st December 1879.

IE SEER OF 80 TOLAHS.

MATZ	corn.			(	FRAN	٤.		1	FIREWO	ю.		SALA		A	BLE-BO BRICULY LABOUR	TURAL	STO	E OR I		CAI	MON M RPENTE LACKSM	R, OR	
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			10	0 1	0 0	9	0	160 0	160 0	160 0	9 0	9 0	9 0	7 0	7 0	5 0	5 0	5 0	5 0 {	7 8 to 10 0	7 8 to] 10 0	7 0 to 9 0	Midnapore.
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			-9	0	9 0	8	0	120 0	107 0	107 0	7 14	7 14	6 0		7 8	6 8	6 0	6 0	6 0	{ to 15 0	12 0	to }	Rungpore.
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	-		10	0 1	0 8	8	0				8 12	8 12	8 8	{7 8 to 8 0	$\begin{pmatrix} 6 & 8 \\ to \\ 7 & 8 \end{pmatrix}$	7 8 {	${ \begin{array}{c} 6 & 8 \\ \text{to} \\ 7 & 0 \end{array} }$	6 0	6 8≺			10 0 to 25 0	Mymensingh.

In Roygunge the prices are—Wheat 10 seers, best rice 14½ seers, common rice 17 seers, and gram 10 seers.

In Nattore the prices are—Wheat 10½ seers, best rice 8½ seers, common rice 15½ seers, and gram 9½ seers.

In the interior the prices range as follow:—Wheat 11½ to 15 seers, best rice 9 to 18 seers, common rice 48 to 20 seers, lesser millets (in Kurigram) 20 seers, and gram to 9 seers.

In Serajguage the prices are—Wheat 12 seers, best rice 8 seers, common rice 18 seers, and gram 10 seers.

In Kurseong the prices are—Best rice 5 seers, common rice 14 seers, lesser millets 12 seers, maize or Indian-corn 13 seers, and gram 6 seers.

In the interior the prices range as follow:—Best rice 10 to 13 seers, common rice 16 to 26½ seers, and gram 7½ to 8 seers.

In the interior the prices range as follow:—Best rice 12 to 18 seers, common rice 18 to 20 seers, and gram (in Narainguage) 11 seers.

In the interior the prices range as follow:—Best rice 12 to 15½ seers, common rice 14 to 16½ seers, and gram 7 seers.

In the interior the prices range as follow:—Wheat 10 to 12 seers, best rice 8 to 25 seers, common rice 16 to 30 seers, and gram 8½ to 10 seers.

# RETAIL PRICES-CURRENT of Food-grains, Firewood, and Salt in the under-

QUANTITIES PER RUPEE BY

THE SEER OF 80 TOLAHS

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	stern Districts.—	(Co	ntd.)	8	Ch.			s. Ch	. S. (	'h.:	S Ch	S.	Ch.	S.	Ch.	S.	Ch	S. (	ch	s. (	Ch	s. c	h	8. Ch.	S. Ch.	S. Ch	S. Ch.	S. Ch	s. ch	S. C	h.	S. Ch.	S. CI
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22	Noakholly		Q									17	0	17	0	8	0	21	0	20	0	13	0										
23	N. S. S.		0 0			10	8			.		14	8	14	8	8	8	24	8	24	8	13	0										
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29	Mozufferpore	1	2 0	13	0	12	0	22 (	0 22	0	20 0	10	0	10	0	8	0	16	0	17	0	14	0			-	,,,			1.			***
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85	Maldah	1		11	8	12	0					15		1		-			0			1	0										
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87	Cuttack		9 3	9	3	12	7		1 .			11	13	11	13	10	8	17	1†	17	1	14	7	1				-		9	3	11 13	21
38	Pooree		7 14	10	8	10	8					9	3	9	3	8	9	17	1	15	12	15	0				-	-	-				
89	Balasore		8 0	8	0	8	0					13	0	13	0	8	0	17	0	17	0	12	0			-			+	1.		-	
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41	Manbhoom		10 (		8	9	12	24	0 24	0		12	0	11	0	12	0	24	0	24	0	19	0			-	32 0	32	0	04	,	64 0	04

Returns not received.
In the interior the price of common rice varies from 15½ to 21 seers, and common rice 19 to 32 seers.
In the interior the prices range as tollow: —Best rice 14 to 21 seers, and common rice 19 to 32 seers.
In Nowada the prices are—Wheat 15 seers, barley 25 seers, common rice 21 seers, lesser millets 35 seers, maize or Indian-corn 27 seers, and gram 15 seers.
In the interior the prices range as follow: —Wheat 13½ to 15½ seers, barley 21 to 25 seers, best rice 10 to 12 seers, common rice 17 to 21 seers, bulrush millet (in Buxar) 20 seers, great millet 20 to 22 seers, lesser millets 20 to 28 seers, maize or Indian-corn 19 to 25 seers, and gram 14½ to 17 seers.
In the interior the prices range as follow: —Wheat 13 to 14 seers, barley 25 seers, best rice 10 to 19 seers, common rice 16 to 20 seers, lesser millets 22 to 25 seers, maize or Indian-corn 20 to 25 seers, and gram 15 to 17 seers.
In the interior the prices range as follow: —Wheat 13 to 21 seers, barley 16 to 38 seers, best rice 9 to 22½ seers, common rice 12½ to 25 seers, lesser millets 24 to 32 seets, maize or Indian-corn 20 to 32½ seers, and gram 15 to 23 seers.
In the interior the prices range as follow: —Wheat 13 to 20 seers, barley 28 to 35 seers, best rice 11 to 17 seers, common rice 14 to 25 seers, lesser millets 27 to 28 seers, maize or Indian-corn 24 to 30 seers, and gram 15 to 20 seers.

mentioned Districts of Bengal for the Fortnight ending 31st December 1879 .- (Contd.)

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<b>Institute</b>	MA		OR D	INDI.	M.			GR	AM.			F	IREW	юр.				SAI	π.			Agr	ICU	ODIEI TURA UBER,	L	ST		Hor PER.	SK-	CA	EPENT	MASON ER, OR	
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32	0	38 (	2	2 0	12	0	10	0	9	0	160-	0 160	0 18	80 (	8	0	8	0	7	0	3 0	3	0	3 0	3 (	0 3	to	3 0 to 5 0	6 t	0 1	to	5 0) to	Lohardugga.
	"			***	12	0	12	0	10	0	180	0 180	0 24	0 0	7	8	6	8	6 (	18	0	3	0	3 0 }	4 to	8 4	to	4 8 to	5 t	0 1	to	8 0 5 0 to 0 0 5 0 to 0 0	Singbhoom.
0	0	32 0	20	8 0	11	0	11	0	9	4	120	0 120	0 13	0 0	8	0	0	0	0 0	1	70	0			0 0	10		0 0	10	0 10		9 6	

W In the interior the prices range as follow:—Wheat 13½ to 15 seers, barley 21 to 22 seers, best rice 8½ to 12 seers, common rice 18¾ to 19 seers, jowar 21 to 23 seers, murwa 22 to 28 seers, maize or Indian-corn 21 to 26 seers, and gram 15 to 15½ seers.

In the interior the prices range as follow:—Wheat 12½ to 17 seers, best rice 15 to 22 seers, common rice 20 to 28 seers, lesser millet 25 to 30 se rs, maize or Indian-corn (in Banka) 22 seers, and gram 11 to 12 seers.

In the interior the prices range as follow:—Wheat 9 to 14 seers, best rice 16 to 22 seers, common rice 20 to 23 seers, and gram 8 to 14 seers.

In the interior the prices range as follow:—Wheat 12 to 13 seers, best rice 9 to 22½ seers, common rice 11 to 25 seers, maize or Indian-corn 14 to 25 seers, and gram 10 to 13 seers.

In the interior the prices range as follow:—Wheat 12 to 14 seers, barley 20 to 25 seers, best rice (in Chutra) 14 seers, common rice 22½ to 24 seers, lesser millets 36 to 40 seers, maize or Indian-corn 30 seers, and gram 12 to 16 seers.

In the interior the prices range as follow:—Wheat 13 to 16 seers, barley (in Daltongunge) 22 seers, best rice 14·62 to 32 seers, common rice 22½ to 24 seers, bulrush millet (in Daltongunge) 25·30 seers, murwa 44 to 45 seers, maize or Indian-corn 40·50 seers, and gram 14 to 16 seers.

In the interior the prices range as follow:—Wheat 8 to 10 seers, barley (in Govindpore) 20 seers, best rice 20 to 23 seers, common rice 22 to 24 seers, bulrush millet 16 to 32 seers, lesser millets 34 to 40 seers, maize or Indian-corn, 34 to 50 seers, and gram 8 to 10½ seers.

Published for general information.

A. MACKENZIE, Secy. to the Govt. of Bengal.

# WHOLESALE PRICES-CURRENT of Food-grains Firewood, and Salt in

									1		a produce o																1											1	R	CES	PER M	AUND
			-			W	'н 1	TAS							]	Ваз	RLE	Y.					R	CE	, в	EST	80	RT					Ric	Œ,	co	мм	on.			BULB	USH M:	BAJRA.
Number.	MARTS.			Present return.			Next preceding return.			Corresponding return	of last year.		Decient schien	Tiescus Icanim.			Next preceding return.		Oceaning dine sebum	of last year.	9.		Present return.			Next preceding return.		Corresponding return	of last year.			resent return.			Next preceding return.		Corregnonding rature	of last year.	The state of the s	Present return.	Next preceding return.	Corresponding return of last year.
	9		R.	٨.	P.	R	. A	. P	. 1	R.	A. :	P.	R.	A.	P.	R	Α.	Ρ.	R.	Ã	P.	R.	٨,	P.	R.	Α.	P.	R.	۸.	P.	R.	٨.	P.	R.	۸.	P,	R		P.	R.A.P	R.A.P	R.A.P
1	Calcutta		3	8	0	3	E	5 (	0	3 1	2	6	2	8	0	2	0	0	2	12	6	6	0	0	6	0	0	6	7	9	3	5	3	3	6	0	4	0	0			
2	Serajgunge		8	4	0	3	(	)	0	4	0	0										4	8	0	4	8	0	4	12	0	2	4	0	2	8	0	3	12	0			-
3	Dacca		3	12	0	3	1	L	0	3 1	12	0	2	8	0	3	0	0				2	6	0	3	0	0	${3 \brace 4}$	6 to 8	0	$\}_1$	14	0	2	4	0	{	3 0 t 3 7	0	}		
4	Naraingung	е										-		••			٠					2	4	0	2	10	0	3	10	0	2	0	0	2	0	0	3	5	0			
Б	Chittagong*			•••													•••			***												•••						•••			-	
6	Patna		2	5	6	2	1	5	6	3	1	3	1 1	13	0	1	10	9	2	0	0	3	10	0	4	0	0	4	0	0	2	5	6	2	1	8	2	. 4	6			
7	Balasore		5	0	0	6	6 (	0	0	4 1	15	0		•••						***		3	2	0	3	2	0	4	12	0	2	6	0	2	5	6	3	2	0			
8	Pooree			•••									٠,							***						•••			•••		2	6	0	2	8	(	3	0	0			
9	Cuttack	•••	4	3	0	4	(	3	0	3	3	0		•••							,	3	4	0	3	4	0	8	8	0	2	2	0	2	2	0	2	10				

<sup>#</sup> Return not received.

CALCUTTA,

The 6th January 1880.

# the undermentioned Marts of Bengal for the Fortnight ending 31st December 1879.

OF 40 SEERS.

		r Mill om, Jo		RAGI	OR MU	RWA	MAIZE	OR IN	DIAN-		GEAM.		F	EEWOOD.		SALT.	
Present return.		Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present retuin.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	l'resent return.	Next preceding return. Corresponding return of last year.	Present return.	Next preceding return. Corresponding return of last vehr.	MARTS
R. A	. P.	R. A. P.	R. A. P.	R. A. P.	R.A.P	R. A. P.	R. A. P.	R. A. P.	В. д. Р.	R. A. P	K. A. P.	R. A. P.	R. A. P	R.A.P. R.A.P	R. A.	P. R.A.P. R A.	Р.
2 8		2 12 0					2 0 0	2 4 0	2 0 0	3 0 0	3 5 (	3 11 9	0 6	30 630 9	4 0	04 004 8	O Calcutta,
		~-								3 14 0	3 2	5 0 0			4 6	0 4 6 0 4 6	0 Serajgung
										3 4 0	3 10 (	4 5 0	0 6	00 600 5	4 3	04 364 2	0 Dacca.
										3 10 0	3 14	3 15 0	0 8	0 0 8 0 0 13	4 5	04 604 3	0 Naraingun
																·	Chittagon
w							1 12 0	1 10 9	1 7 3	2 5 6	2 5	3 8 0	0 4	90 4 90 4 9	4 10	041005 0	0 Patns.
										5 0 0	5 0 (	8 0 0	0 3	60 360 8	4 2	04 605 0	0 Balasore.
																	Pooree.
				4 3	3 4 (	1 11 0				2 10 0	2 8	3 0 0	0 4	0 0 4 0 0 3	0 3 8	0 3 8 0 3 6	0 Cuttack

Published for general information.

A. MACKENZIE,
Secy. to the Govt. Bengal.

# STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

					STOC	STOCKS IN HAND AS COMPILED ON	COMPILED ON-						
NAMES OF MAKIS.	1st week of Jan. 1879.	1st week of Feb. 1879.	1st week of Mar. 1879	1st week of April 1879.	1st week of May 1879.	1st week of June 1879.	1st week of July 1879.	1st week of Aug. 1879.	1st week of Sept. 1879.	1st week of Oct. 1879.	1st week of Nov. 1879.	1st week of Dec. 1879.	1st week of Jan. 1880.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Baliaghatta	2,68,300	5,59,800	8,31,500	6,09,000	5,19,000	5,04,500	4,71,000	4,54,000	2,59,500	3,94,000	3,23,200	1,99,000	1,93,900
;	29,600	37,300	47,400	20,000	69,200	28,000	46,500	53,600	11,300	32,500	37.400	27,900	32,400
Chitpore, Golabaree, Coomer- teoly, Hatkhola, and Culpy Ghât.	2,94,600	3,51,100	4,53,800	4,68,300	3,64,900	3,77,690	3,85,300	4,63,500	4,60,100	6,51,400	5,91,700	4,85,400	5,07,900
Pathuriachatta, Posta, and Jorabagan.	10,100	16,800	26,590	37,000	24,200	24,700	18,000	22,200	32,000	31,000	28,500	23,700	87,700
Tollygunge, Chitlah, Kidderpore, and Moonshigunge.	74,600	1,20,800	1,60,200	1,44,100	1,08,500	1,01,800	1,98,900	1,06,400	57,000	68,900	69,200	50,200	996,69
21 Minor Bazars (estimated)	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,090	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 8,129 in number (estimated.)	2,50,600	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Bhuddressur, and Chander- nagore.	93,563	67,763	95,480	85,897	62,705	76,925	61,476	51,912	64,014	77,434	65,260	28,506	23,412
Total	12,60,663	16,43,563	21,04,880	18,84,297	16,38,505	16,33,525	15,81,176	16,41,612	13,73,914	17,48,234	16,05,260	13,04,706	13,55,213
On Railway premises both sides the river.  (Port Commis- since inches re- sure inches re-	23,410 (on 3rd Jan. 79.) 85,834 (1st to 3rd Jan. 79.)	9,214 (on 3rd Feb. 79.) 56,664 (1st to 3rd Feb. 79.)	2.300 (on 3rd March 79.) 44.739 (1st to 3rd March 79.)	0m 3rd April 79.) 33,792 (1st to 3rd April 79.)	3,104 (on 3rd May 79.) 18,214 (1st to 3rd May 79.)	3,596 (on 2nd June 79.) 28,382 (31st May to 2nd June 79.)	2,802 (on 3rd July 79.) 36,377 (1st to 3rd July 79.)	6,374 (on 4th Aug. 79.) 42,961 (1st to 3rd Aug. 79.)	6,256 (on 3rd Sept. 79.) 79.) 27,267 (1st to 3rd Sept. 79.)	4.358 (on 3rd Oct. 79.) 79.) 37.113 (1st to 3rd Oct. 79.)	1,259 (on 4th Nov. 79.) 19.590 (1st to 3rd Nov 79.)	2,756 (on 5th Dec. 79.) 26,318 (3rd to 5th Dec. 79.)	11,364 (on 5th January.) 45,029 (1st to 3rd January.)
9	73,768 (1st to 3rd Jan. 79.)	59,833 (1st to 3rd Feb. 79.)	46,090 (1st to 3rd March 79.)	13,901 (1st to 3rd April 79.)	7.313 (1st to 3rd May 79.)	3,215 (31st May to 2'nd June 79.)	12,748 (1st to 3rd July 79.)	4,948 (1st to 3rd Aug. 79.)	12,483 (1st to 3rd Sept. 79.)	21,128 (1st to 3rd Oct. 79.)	22,032 (1st to 3rd Nov. 79.)	8,452 (3rd to 5th Dec. 79.)	56,977 (1st to 3rd January.)
Grand Total of Stocks	14,41,775	17,69,274	21,98,009	19,34,766	16,67,136	16,68,698	16,33,103	16,95,895	14,18,920	18,10,833	16,48,139	13,42,233	14,69,052
Probable stocks available for exportation by sea.	4 lakhs.	7 lakhs.	10 Jakhs.	St lakhs.	6 lakhs.	6 lakhs.	5% lakhs.	63 lakhs.	34 lakhs.	74 lakhs.	6 lakhs.	3 lakhs.	4 lakhs.

A. MACKENZIE,
Secy. to the Govt. of Bengal.

Statistical Department, The 6th January 1880. e following Statement shows the Quantities of the principal Staples of Traffic imported into Calcutta from the interior during the month of October 1879.

IMPORTS INTO CALCUTTA.

				FOO	D-GRAI	NS.			FIBROUS I	PRODUCTS.	Oils	REDs.				Sve	AR.
hence imported	ı.	RICE	AND PAI	DDY.	Wheat.	Gram and	Other food-	Total.	Jute, raw.	Gunny	Linseed.	Mustard	Tea, Indian.	Cotton,	Silk, raw.	Refined.	Unre-
		Rice.	Paddy.	Total (in rice).	*	pulses.	grains.	20000	•	bags.		seed.				wenned.	fined.
BENGAL.		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds,	Mds.	Mds.
an loom ly cunnahs a ledabad pore		50,483 45,934 50,115 34,416 86,356 1,182 4,275 25,259 56,506	16,250 31,720 5,107 22,425 	60,639 45,934 69,940 37,608 1,00,372 1,182 4,275 25,259 56,568 748	11,527 47 3,367 4,274	6,374 1 10,208	1,457  1,140 2,542	45,934 60,940 56,649 1,00,420 17,299 4,275 30,730 56,568 3,865	44,832 80,419 46,569 21,822 6,520 65,608	457.674 294.625 1,750 495,575	49,757 3,297 4,662	10,369	465	34 864 839 140	115 278 140 293	4,852 4,460 1,370 466 300	1,370 5,811 16,971 3,164 8,15
oree dpore gunge		7,48 7,235 1,094 6,553 1,576 1,88,991 400	500	7,235 1,094 6,553 1,889 1,88,991	402	2,655  206  302 450		7,235 206 1,094 6,553 2,191 1,89,441	95,858 246 4,29,920 10,801 3,37,100 5,21,308 400 16,427	32,578 176,550 6,700 700 7,752	13	1,302	13,629				
ah gong olly al of Bengal BEHAR.	::	1,030 180 18,990 5,81,323	76,102	1,030 180 18,990 6,28,887	19,677	22,266	5,139	1,030 180 18,990 6,75,969	16,77,770	1,473,929	58,506	12,169	1,242	1,878	1,249	11,448	35,78
oad erpore unga lpore h l Pergunnahs		28,274 1,371 776 1,868 2,468 52 404 11,272		28,274 1,371 776 1,868 2,468 52 404 11,272	88,489 16,503  37,662 23,487 46,028 693 9,365 9,791	73,539 1,344  4,705 42,918 3,948 962	23,145 3 197 12 1,519 407 1:6 363  265	2,13,447 19,221 197 788 43,886 68,680 52,570 2,070 9,769 21,726	8,769	3,750	1,35,944 1,749 13,454 65,773 37,963 23,684 9,426 2,910 1,093	24,290 776 4,029 9,208 4,906 5,681 2,441 6,527	1,525			1,121	1,67
tal of Behar		46,485		46,485	2,32.018	1,27,814	26,037	4,32,354	8,769	3,750	2,91,996	57,838	1,525			1,459	2,5
ORISSA.	::	6,461 1,810	4,247 19,047	9,115 13,715	23	678	11	9,816 13,726		1,990 700	******						
tal of Orissa		8,271	23,294	22,830	23	678	11	23,542		2,600					******		
ibagh		3,704 5,311		3,70 a 5,311		31	65	3,704 5,407	*****				166 154				
of Chota Nag	pore	9,015		9,015		31	65	9,111					260				****
total of supplet the Proving the Lieutena ernor of Benga	ces (	6,45,094	99,396	7,07,217	2,51,718	1,50,789	31,252	11,40,976	16,86,539	1,480,279	3,50,502	70,027	17,251	1,878	1,240	12,907	38,2
HER PROVINCE	***											2	60,414			-	3
Western Provinces I Provinces tanna States y Burmah places	nces	2,182 		2,182  769 83 275	3,89,378	18,259 15,491  832 5	2,711	4,12,530 97,274  769 365 3,334	73	4,253 800 300 3,900	27,658	45,312 2,664	8	23,095 1,083 185 533 4,884 2,115	7 393	186	2
total of	1070	6,48,353	99,396	7,10,476	7,25,933	1,84,876	33,963	16,55,248	10.86.619	1,489,532+	3,78,160	1,18,005	77,673	85,792	1,659	18,933	38,8

<sup>•</sup> One maund of paddy is equivalent to 25 seers of rice.

The Sea-borne Trade of Calcutta in these Staples during the month of October 1879 was as follows :-

CALCUTTA—	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds
bay	17,216 139 54 91	69	17,269 139 54 91	2,500 409 5,533 98	207 30,666 3,446 2,767 88	8 9 14 201	17,476 83,313 3,994 2,835 5,713 98	32,750	663,901 304,778 425,100 94,225 , 5,100	51	49	52 4 7 10 2		78 301 17 21 52	219 599 251	
of interportal	17,500	69	17,553	8,430	37,214	232	63,429	32,750	1,493,104	51	49	75		469	17,742	
reign Ports— ed Kingdom er foreign ports	\$28,723 3,55,150	3 20	28,725 3,55,163	3,88,300 18,136	200 45,098	13,961	4,17,225 4,32,358	6,57,807 2,31,525	7,024,500	2,97,756 49,968	44,151 82	51,956 143	1,408 16,038	1,271 817	1,276	
d of foreign trade	3,83,878	23	3,83,888	4,06,436	45,298	13,961	8,49,583	8,89,332	7,024,500	3,47,724	44,233	52,099	17,416	2,088	1,276	***
id total of [1879] sorts in Oct. [1878]	4,01,878 5,50,866	92 501	4,01,441 5.51,178		82,512 56,179	14,193 7,813	9,13,012 7,89,251	9,22,082 9,39,186	8,517,604 5,894,558	3,47,775 2,71,795	44,282 1,26,168	59,174 46,027	17,446 26,570	2,557	19,018 11,041	

<sup>†</sup> Exclusive of bags obtained by local manufacture.

The following Statement shows the several Routes followed by the Trade in the principal Staples of Traffic imported into Calcutta during the month of October 1879.

#### IMPORTS INTO CALCUTTAL

		1	OOD-GEAL	NS.		FIBROUS	PRODUCTS.	OIL	SEEDS.	m	Mds. 13,061	Silk, raw.  Mds. 412  436 293 118 400	SUGAR.		
Specification of routes.	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food- grains.	Jute, raw.	No. 1,241,824 226,305 9,550 11,853	Mds. 2,76,392 1,00,341 1,427	Mustard seed.  Mds. 61,440 2 56,563	Tea, Indian.			Kenned.	Unre-	
By country boats river steamers rail { Fast Indian raid { Eastern Bengal	Mds. 4,22,136  1,60,743 13,644 42,752 9,078	,136 65,282  .743 .644 .752 10,820	5,68,950 89,600 340 2,460 45	91,794	23,614	Mds. 6,24,076 1,91,128 7,90,432 71,903 73				Mds. 52,226 1,923 22,282 1,242				Mds. 82,00 2,90 2,90	
Grand total of Imports { 1879 in October { 1878	6,48,353 8,19,071	99,396 68,458	7,25,933 3,08,498	1,84,876 2,56,463	33,963 48,386	16,86,612 18,03,434	1,489,532 1,838,840	3,78,160 4,11,039	1,18,005 1,68,926	77,678 50,183	35,792 39,505	1,659 1,355	18,933 16,642	38,8	

The following Statement shows the Quantities, Values, and Numbers of the principal Staples of Traffic exported inland from Calcutta during the month of October 1879.

EXPORTS FROM CALCUTTA.

		-				-	1.2	APORTS FRO	JA CALCUITA.			114.00	
Whit	Whither exported.  Cotton piece-goods (European).						Salt.	Gunny-bags.	Whither exported.	Cotton piece- goods (European).	Cotton twist (European).	Salt.	Gunny-ba
	BENG	AL.			Rs.	Mds.	Mds.	No.	CHOTA NAGPORB.	Rs.	Mds.	Mds.	No.
Burdwan Beerbhoom			*** ,		4,87,020 1,96,800	1,276 392	40,530 9,437	41,455 36,175	Hazaribagh	92,960 89,680	47 590	7,405 3,811	2,730 2,623
Midnapore					4,550	828	368	5,100					-
Hooghly		***	***		58,440	670 598	2,691 19,284	114,118 271,465	Total of Chota Nagpore	1,82,640	637	11,216	5,350
24-Pergunnah		1.04	***		1,88,486 5,75,185	1,807	9,026	4,550	Grand total of supplies into the		100000		State of Kolonia
Nuddea Jessore	***				24,366	310	82,861		provinces under the Lieuten- >	76,89,207	16,609	5,15,492	960,80
Moorshedabad		***	***		4,92,320	162	10,957	14,940	ant-Governor of Bengal.				
Dinagepore	***	***	***		1,95,200 1,33,120	184	3,875 2,000	2,000	OTHER PROVINCES.		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		1.122232333333
Rajshahye	***				2,24,860	62	4,100		Assam	3,63,640	580	31,154	
Bogra	***				34,160	5	700	******	North-Western Provinces	22,82,560	2,447	2,623	562,442
Pubna	***	***	***		2,70,960	481	41,330	5,500	Punjab	22,53,920	2,754	******	250,740
Julpigoree	gives .	***	***		1,18,380	$\frac{304}{2.083}$	55,992	******	Central Provinces	1,13,520	390	*****	32,20
Dacca		***	***	***	4,92,520 2,99,140	1,034	32,763		Rajpootana States Nizam's Territory	1,52,000 720	50	*****	2,940
Furreedpore Backergunge		***	***		67.619	354	20,335		Bombay	15,944	20		663,907
Mymensing					1,000	43	12,975		Madras	42,522	511		304,778
Tipperah			***				3,419	******	British Burmah	1,87,156	1,721	******	425,100
Chittagong		***	***		86,541	269 180	6,823	17,700	Pondicherry	0.00.00	******	*****	-5,100
Noakholly	***	****	***	***	9,400	180	0,020		Other places	2,32,502	289	13,956	7,030,485
	Potal	of Be	ngal		39,51,067	11,103	3,13,366	513,003	Grand total of Exports [1879 in October [1878	1,33,33,691 1,28,21,316	25,371 20,945	5,63,225 3,74,993	10,238,493 7,074,222
	Ввна	в.							The Sea-borne Trade of Calcutta in	these stanles	during the	month of	October 18
Patna					13,75,120	519	92,828	187,660	was as follows:-	these stages			
Shahabad			***		1,81,600	199	16,990	28,630		. 100			
Mozufferpore	***	***	***		4,36,880	435	7,495 25,822	3,640					
Durbhunga	***	***	***		2,91,680		7,725	42,093 9,150	IMPORTO THE CLUSTER	Rs.	Mds.	Mds.	
Sarun Monshyr	***	***	***	***	1,75,920	180	8,448	30,595	IMPORTED INTO CALCUTTA -	ICS.	mas,	Mas.	No.
Bhagulpore		***	***		3,81,360	289	11,287	42,610	From Foreign Ports-			33.55	
Purneah		***	***		2,70,260	247	1,790	1,840	United Kingdom	75,56,010	12,398 -	3,99,467	
Maldah	1000	***	***		3,70,480	415.	6,426 12,099	19,530	Other foreign ports	1,075	150	69,654	
Sonthal Pergu	31			***		2,284	1,90,910	865,923	Total of foreign trade	75,57,085	12,548	4,69,121	*****
	Total	01 18	enar	***	34,83,300	2,259	1,90,910	000,825	From Indian Ports -			To Mark to	Market Street
	1								Bombay			28,311	4,253
				1					Madras	1,665	*****		800
	ORIBE	A.							Other ports in Madras	600			
				-					British Burmah	3,740	59		4 900
Cuttack					53,900	1,790		9,450	Other Indian ports	1,740	0		6,800
Balasore	***				18,300	795		67,075	Total of interportal trade	7,745	62	28,311	11,853
					70.000	2,585	7.0	76,525	Grand total of Imports ( 1879	75,64,830	12,610	4,97,432	- 11,853
	Total	of O	rissa	***	72,200	2,080		70,025	in October (1878	1,14,58,659	22,395	6,02,357	180,600

The following Statement shows the several Routes followed by the Trade in the principal Staples of Traffic exported from Calcutta during the month of October 1879.

					SPE	CIFIC	ATION	OF E	aTUO	s.			4			Cotton piece- goods (European).	Cotton twist (European).	Salt.	Gunny-bags.
															T	Rs.	Mds.	Mds.	No.
By countr			***	***					*		***	***	***			1,26,271	2,813	2,65,508	504,375
" river s				***	***		***	***	***	***	***	***	***	***	***	8,47,280	880	6,954	******
rail	{ East			***	***	***	***	***	***	***	***	***	***	***		98,81,040	- 10,701	2,22,229	1,216,005
SECURITY OF THE PARTY OF THE PA	( Lust	GELL E	engar	***	***	***	***	***	***	***	***	***	***	***	***	23,81,840	4,907	61,870	11111
" road	***	***	***	***	***	***	***	***	***	***	***	***	***	8.00	***	1,94,795	984	6,650	509
" sea	***	***	***	***	***	***	***	***	***	***	***	***	***	***		4,02,465	5,086	14	8,517,604
						. 1	Grand	total	of Ex	ports i	n Oct	ober	{	1879 1878	::	1,33,33,691 1,28,21,316	25,871 20,945	5,63,225 3,74,993	10,238,493 7,074,222

\* As per tariff declaration value.

STATISTICAL DEPARTMENT, The 3rd January 1880. A. MACKENZIE, Secy. to the Govt. of Bengal.

### Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

=		1	4th Dec.	21st Dec.	RAIN FROM 187	The state of the s
DIFISIONS.	DISTRICTS.	STATIONS.	from 14th 20th Dec. 9.	th	JANUARY 1879.	REMARKS
Divi			Rain fr to 20 1879.	Rain fr to 27 1879.	Inches. Up to de	ite.
BEN	NGAL. Western District		Inches.	• Inches.	1879.	
	Burdwan	Burdwan Cutwa Culna Raneegunge	Nil. ditto ditto ditto	Nil. ditto ditto ditto	41.06 27th De 44.96 ditto 51.58 ditto 39.37 ditto	c.
	Bankoora	Bishenpore	ditto ditto	ditto ditto	47.89 ditto 13.91 ditto	From 30th August.
BURDWAN.	Beerbhoom	Sooree Hetaippore Roypur Rampore Haut	0 01 Nil, ditto 0 01	ditto ditto ditto ditto	49°03 ditto 51°64 ditto 35°29 ditto 56°13 ditto	
B	Midnapore	Midnapore Tumlook		Not recd.	38 96 ditto 33 85 20th De	7th to 13th Dec.
	in the state of th	Ghattal Contai { Dy. Colir.'s Office Exe. Engr.'s Office	ditto	Nil. Not reed. Nil.	34 51   27th   6 48 51   20th De 40 04   27th De	ec.
	Hooghly	Hooghly Serampore Jehanabad Howrah Maheshraka	ditto ditto ditto ditto ditto	ditto ditto ditto ditto ditto	41.43 ditto 44.70 ditto 50.44 ditto 43.35 ditto 34.47 ditto	
	CENTRAL DISTRICT					
	24-Pergunnahs	Alipore Observatory Alipore Observatory Jail Busseerhat Diamond Harbour Barripore Satkhira Barrackpore Dum-Dum	ditto	ditto ditto ditto ditto ditto ditto ditto ditto ditto ditto ditto ditto	50'08 ditto 40'53 ditto 44'85 ditto 44'85 ditto 44'35 ditto 44'35 ditto 44'02 ditto 44'86 ditto 42'04 ditto 42'64 ditto	
PRESIDENCY.	Nuddea	Kishnaghur Bongong	ditto ditto ditto ditto ditto ditto ditto	ditto ditto ditto ditto ditto ditto ditto	54 63 ditto 47 20 ditto 59 86 ditto 77 65 ditto 66 07 ditto 58 54 ditto 58 54 ditto	
P	Jessore Moorshedabad	Narail Khoolna Jhenidah Bagirhat Magoorah Berhampore Lallbagh Jungypore Azimgunge	ditto	ditto	42:35 ditto 56:91 ditto 63:23 ditto 44:74 ditto 56:25 ditto 62:39 ditto 60:86 ditto 54:15 ditto 63:46 ditto	
(	Dinagepore	Lalgolla Kandee  Dinagepore Raigunge Mohadebpore Chooramon	ditto ditto ditto ditto ditto	ditto ditto ditto ditto ditto	65 07 ditto 86 89 ditto 62 84 ditto 91 76 ditto	From 9th March.
	Maldah	Maldab Chanchal		Not recd. ditto Nil.	70.58 20th De 75.44 ditto 86.88 27th De	c.
Валенания,	Rajshahye	Rungpore	ditto ditto ditto ditto	ditto ditto	66.59 ditto 108.98 ditto 79.54 ditto	
RA		Kurigram Bagdogra	ditto ditto ditto	ditto ditto ditto	87:03 ditto 126:74 ditto 71:79 ditto 80:68 ditto	
	Bogra	Nowkhilla Panchbibi Pabna	ditto ditto ditto	ditto ditto ditto	64.15 ditto 78.45 ditto 54.69 ditto 70.50 ditto	
11	Darjeeling	Serajgunge Darjeeling { Telegraph Office Hospital	ditto ditto	ditto ditto	152.67 ditto 160.69 ditto	
Сооси Винля	Julpigoreo	Julpigoree Bodsh Titalya Guabor Dangua Jhar Bamundauga Phoolbary	ditto ditto ditto ditto ditto ditto ditto	ditto Not recd. ditto ditto ditto ditto ditto ditto ditto		From 15th June.

TOMB.	DISTRICTS.	STA	TIONS.		om 14th	from 21st 27th Dec. 9.	JAN	FROM 1ST UARY 879.	R	MARKS.	
<b>DIVISIОИS</b> ,					Rain from to 20th 1879.	Rain fr to 27 1879.	Inches.	Up to date	julie,		
E	NGAL-continued.						1	1879.			5.16
	CENTRAL DIS- TRICTS.—contd.	0 1			Inches.	Inches.	140:04	ard D			
	Cooch Behar Tribu- tary States  Eastern Districts.	Cooch Behar Dinhatta Mathabhanga Mickligunge			Nil. ditto ditto ditto	Nil. ditto ditto ditto	142.94 125.82 146.35 133.66	27th Dec. ditto ditto ditto			
Betration	Dacca	Dacca { Telegons Moonsheegunge Manickgunge	graph Offic pital •	e	ditto ditto ditto	ditto ditto ditto ditto	60.84 74.80 89.08 60.28	ditto ditto ditto ditto	-5		
	Furreedpore	Furreedpore Goalundo Madaripore			ditto ditto ditto	ditto ditto ditto	64.90 63.61 42.02	ditto ditto ditto	2.0		
-	Backergunge	Burrisal Perozepore Patooakhally Bhola	***		ditto ditto ditto ditto	ditto ditto ditto ditto	55 63 66 55 84 60 85 45	ditto ditto ditto ditto			
-	Mymensingh	Mymensingb Jamalpore Atia Kishoregunge		:::	0.01 Nil. ditto ditto	ditto ditto ditto ditto	80.77 94.12 51.50 84.91	ditto ditto ditto ditto	16.		
	Chittagong	Chittagong { Te	elegraph O	fice 	ditto ditto 0.81	ditto ditto ditto	103·46 95·31 156·35	ditto ditto ditto			
	Noakholly {	Noakholly Fenny			Nil. ditto	ditto ditto	115.88 126.05	ditto ditto	25		
	Tipperah	Commillah Chandpore Brahmunbariah		:::	ditto ditto ditto	ditto ditto ditto	80·30 76·77 71·17	ditto ditto ditto			
	Chittagong Hill Tracts.	Rungamatee Hi Ruma	M		ditto Not reed.	ditto Not reed.	97-71 110-94	ditto 13th Dec.			
	Hill Tipperah	Agartola	•••	•••	Nil.	Nil.	75.68	27th Dec.			
H	Patna	Patna Behar Barh Dinapore	***		ditto ditto ditto	ditto ditto ditto ditto	44.73 42.84 53.16 42.34	ditto ditto ditto ditto		5.	
water and a second decouple	Gya {	Gya Nowadah Aurungabad Jehanabad	***		ditto ditto ditto ditto	ditto Not recd. Nil. ditto	44.51 29.57 58.91 47.23	ditto 20th Dec. 27th Dec. ditto			
The same of the contract of the same	Shahabad {	Arrah Sasseram Buxar Bhubooah			ditto ditto ditto ditto	ditto ditto ditto ditto	46.87 62.60 51.73 57.27	ditto ditto ditto ditto		*	
	Mozafferpore {	Mozufferpore Hajeepore Seetamurhee	***	=	ditto ditto ditto	ditto ditto ditto	60°39 43°47 66°05	ditto ditto ditto	*		
-	Durbhunga {	Durbhunga Mudhoobunnee Tajpore	***	=	ditto ditto ditto	ditto ditto ditto	62:97 63:85 63:66	ditto ditto	- 14		
-	Sarua {	Chupra Sewan Gopalgunge	:::	=	ditto ditto ditto	ditto ditto ditto	49.60 51.62 55.77	ditto ditto ditto	Not recorded in 24th May.	rom 20th A	april to
-	Chumparun {	Motiharee Bettiah Segowlee		=	ditto ditto ditto	ditto ditto ditto	55.70 64.58 60.33	ditto ditto ditto			
-	Monghyr {	Monghyr Begooserai Jamooee	<del></del>	=	ditto ditto ditto	ditto ditto	64·82 36·47 38·09	ditto ditto ditto			
-	Bhagulpore	Soopool Muddehpoora Banka	***		ditto ditto ditto ditto	ditto ditto ditto ditto ditto	51.05 77.24 67.31 49.04 68.20	ditto ditto ditto ditto ditto			4.0.
	Purneah {	Purneah Kissengunge	<u></u>		ditto ditto ditto	ditto ditto ditto	131·39 72·44 82·33	ditto ditto ditto			
	Sonthal Pergunnahs	Nya Doomka Rajmehal Deoghur Jamtara Pakour	 		0°01 Nil, ditto ditto ditto ditto	ditto ditto ditto ditto ditto	61.40 69.86 44.11 87.05 70.22 68.29	ditto ditto ditto ditto ditto ditto			

	DISTRICTS.	STAT	rions.		from 14th 20th Dec. 79.	from 21st 7th Dec.	JA	PROM 1er NUARY 1879.	Remarks.
		and the second			Rain f to 2 1879	Rain from to 27th 1879.	Inches.	Up to date.	
RIS	SSA	1.0			Tb	Inches.		1879.	
					Inches.				
		Cuttack	***		Nil.	Nil.	60°62 48°99	27th Dec.	Not read at 1 and 27
d	a.u.d	Jajpore Kendraparah		***	ditto	ditto	44.55	ditto	Not received 30th Nov. to 6th De
1	Cuttack	Jagatsingpore			ditto	dato	24.88	ditto	Ditto 9th to 15th Nov.
	Marie Marie	False Point		***	ditto	ditto	62.13	ditto	
		Pooree		,	ditto	ditto	53.40	ditto	
۱	Pooree	Khurdab	***	***	ditto	ditto	63-89	ditto	Form Oth Month and
	180	Banpore	•••	***	ditto	ditto	87.06	26th Dec.	From 9th March, and not red 15th to 21st Nov.
1	-4	Balasore			ditto	ditto ·	49.62	27th Dec.	
		Bhadrack Jellasore	***		ditto	ditto	49°33 43°81	ditto ditto	
П	Balasore <	Sorah	***		ditto ditto	ditto	40.35	ditto	
		Chandbally	***		ditto	ditto	67.62	ditto	
		Bareepudda	***	•••	ditto	ditto	39.84	ditto	
1	Cuttack Tributary Mehals.	Sumbalpore			ditto	Not recd.	78.54	20th Dec.	
1	CHOTA NAGPORE.	A Control							
	SOUTH-WESTERS FROSTISE AGENCY.				3144-	3:44-	44.05	3'44-	
1		Hazareebagh	{ Jail Dispense		ditto ditto	ditto	44.35 44.69	ditto ditto	
	Hazareebagh	Pachamba			ditto	ditto	52.70	ditto	
1	ilazareedagb {	Sitagurh Mowdie Hills			ditto	ditto ditto	46.83 52.71	ditto ditto	
1	Lohardugga §	Ranchee			ditto	Nil.	48.76	27th Dec.	
1	(	Palamow	***	***	ditto	ditto	44.03	ditto	
1	Singbhoom	Chyebassa	•••		ditto	ditto	47.67	ditto	10,00
1	Manbhoom {	Purulia Goviudpore	•••		ditto	ditto ditto	34.58 58.58	ditto ditto	
1	ASSAM & ADJA- CENT HILLS.								
1	Sylhet	Sylhet			ditto	ditto	160.09	ditto	
1	4	Sibsagar	***		ditto	Not recd.	105.76	20th Dec.	
1	Sibsagar {	Golaghat Jorhat			ditto	ditto ditto	75.22 $70.42$	ditto ditto	
1	Burmah	Akyab			1.19	0.01	223-74	27th Dec.	
1		Alwar			Nil.	Not recd.	29.01	20th Dec.	
1	Rajpootana }	Jaipur	***		ditto	ditto	31.21	ditto	
1	1	Sambhar			ditto	ditto	22.94	ditto	

METEOBOLOGICAL OFFICE, BENGAL, The 3rd January 1880. John Eliot,

Meteorological Reporter to the Govt. of Bengal.

### Meteorological Telegraphic Report for the period 28th to 31st December 1879.

ONS.			Baro-	Baro- meter		YGEO- KTKE.	lity 100.	Wini	<b>o</b> .			Weather remarks.
STATIONS.	Pate.	Hou	reduced to 32°	reduced	Dry	. Wet.	Humidity Sat. = 100.	Directions.	Velo-		At hour of observation.	For preceding 24 hours.
					Ī.,							
	Dec. 28th	10	30.041	30.063	70.7		61	W.	1.2			Fine clear weather.
			29.886	29.908	78.7		41	wsw	1.0		*********	Ditto.
B,	29t)	16	30.984	30.008	69.7		69	WNW	3.2		***************************************	Ditto.
ALIPORE	1		29.848	29.870	77.7		42	NNW	7.5			Ditto.
ALI	30th	10	30.002	30.028	63.8		66	N	6.0			Ditto.
			29.893	29.915	69.7	58.5	47	N	8.2			Ditto.
	Sls	16	30.041	30,064	64.8	55.2	52	N	2.5			Fine weather, with passing clouds,
	1		29-900	29.922	69.7	54.5	32	WNW	6.2			Fine clear weather.
	Dec. 28th	10	30.041	30.047	70.4	67.9	88	N W	3			Foggy.
		16	29.910	29.916	74.9	67.9	68	s w	8			Fine clear weather.
	29th	10	30.011	30.017	73.9	72.4	93	WNW	5		Fog	Foggy.
ISLAND.	1	16	29.868	29.874	76.4	66.4	57	NNE	8			Fine clear weather.
ISI	30th	10	30.016	30.022	65.4	58'8	66	N	9			Ditto.
SAUGOR		16	29.912	29.918	69.4	60,3	56	N	16			Ditto.
SAT	31st	10	30.042	30.051	63.9	56.8	63	NNE	7			Ditto,
		16	29.931	29.927	68-4	57.8	49	• N	19			Ditto.
	Dec. 28th	10	29.952	30.046	67.8	63.0	75	N	1			Foggy.
020	29th	10	29.903	29.996	68.8	63.5	74	ENE	1			Fine clear weather.
LIVE	30th	10	29.899	29.992	69.8	64.2	74	ENE	1			
CHILTAGONG.	31st	10	29.913	30.008	68.0	59.0	90	Calm	1		Fog;y	Foggy.
1	Dec. 28th	10	29.962	29'984	71.3	65*6	72	N E	1			Fine clear weather.
AKTAB.	29th	10	29.898	29.920	70.8	65.6	75	ENE	1		**********	Ditfo.
AR	30th	10	29.884	29.906	71.3	65.6	72	N	1			Ditto.
	31st	10	29 913	29 935	70-8	64.6	70	N				Ditto.
4	Dec. 28th	10	30.028	30.046	74.9	69.4	74	Calm	5			. Ditto.
TOTAL .	29th	10	29.989	30.007	76.9	67.4	59	w	5			Dtto.
3	30th	10	30.000	30.018	70.9	62.5	60	NNE	7			Ditto.
1	31st	10	<b>80°0</b> 30	30.048	68.0	60.0	60	N	13			Ditto.
20	Dec. 28th	10	80.002	30.037	73.0	66.0	67	ESE	1		***	Fine weather, with passing clouds.
	29th	10	29.991	30.024	73.0	65.5	65	N W	1		1	Fine clear weather.
1	30th	10	29.957	29.990	74.5	65.0	57	wnw	1			Ditto,
	31st		29.975	30.008	73.0	64.0	58	ENE	2			
	Dec. 28th	10	29:910	29.951	80.0	77.0	87	NE	14			Fine weather, with passing clouds.
33 <b>1</b> 3F			1				78	NNE	14			Ditto ditto.
1	29th	10		29:879	80.2	75.5		N		0:05	***************************************	Ditto ditto.
1	30th	10	29.853	29.894	80.0	75.0	78		13	0.02		
1	Slat	10	29.873	29.914	78.2	76.0	89	NE	19			Ditto ditto.

\* Velocity of wind in miles per hour,

CALCUTTA, The 3rd January 1880. JOHN ELIOT,
Meteorological Reporter to the Govt. of Bengal.

### Results of the Meteorological Observations taken at the Alipore Observatory from 28th December 1879 to 3rd January 1880.

			ieter	T	BMPBR.	EURB.		E	IYGROM	ETEY,		WIND.		567	
Month.	Date.	Maximum in sun.	Mean pressure barometer at 32° Fah.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	Whatber.
1879.		0	Inches.	0	0	0	0	0	Inches	$\Theta$	%			Inches	
Dec.	28th	135.1	29.941	65.9	75.8	24.0	54.8	60.3	0.452	56.1	71	Till 7-30 p.m. W by S, till midnight S.	27	Nil	Clear, f & w.
"	29th	129-9	-905	67:3	78.4	22.1	56.3	61.4	466	<b>57</b> °0	69	Till 8 A.M. S, till midnight N N W through S W, W and N W.	78		Clear, f & w.
1 "	30th	126.4	'945	60.9	72.5	16.2	56·3	564	*397	52.6	74	Chiefly N N W	100		Clear, f & w.
1880.	31st	129.7	1960	59.7	70.2	16.9	53.3	53.2	.321	46.8	62	Till 1 P.M. chiefly N N W, till midnight W N W through N W.	77		Chiefly clear &
Jan.	1at	122-4	*934	61.1	72.5	21.2	51.3	55.6	·373	50.8	70	Till 2-30 A.M. W N W, till 9 A.M. N N W through N W, till midnight N by W	55		Chiefly clear &
	2nd	113.7	.881	64.9	71:4	15.1	56:3	59.3	'432	54.8	70	Till 9 A.M. N by W, till midnight N by E.	83		Cloudy, o, g, &
n	3rd	92.7	1841	66.6	70 6	6.3	64.3	62.2	.203	59.1	77	Chiefly N by E and N by W.	139		Cloudy, o, g, d

		Inches.
The mean pressure of the seven days		29.915
The average pressure of the corresponding period for 24 years S. G. Office		80.030
		θ
The mean temperature of the seven days		63 8
The average temperature of the corresponding period for 24 years S. G. Office	***	66.9
The extreme variation of temperature during the seven days		27.5
The maximum temperature during the seven days		78-8
		%
The mean relative humidity during the seven days		70
The average relative humidity of the corresponding period for 24 years S. G. Office		71
		Inches.
The total fall of rain from 28th December 1879 to 3rd January 1880	***	Nil.
The average fall of the corresponding period for 24 years S. G. Office		Nil.
The total fall from 1st January 1879 to 3rd January 1880		43.51
The average fall of the corresponding period for 24 years S. G. Office		61.64

The mean pressure, temperature, &c., are deduced from observations made at 6h., 10h., 16h., and 22h.; the maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction and movement of the wind are taken from the trace of a Beckley's anemograph. The mouth of the rain-gauge is one foot above the ground.

f fog, w dew, o overcast, g gloomy, d drizzling.

Total fall of rain in the year 1879 Total fall of rain in the year 1879 ... ... Average fall of the corresponding period for 24 years, S. G. Office 43.51 61.64

METEOROLOGICAL OFFICE, INDIA,

The 5th January 1880.

HENRY F. BLANFORD,

Meteorological Reporter to the Government of India.

# PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH GOVERNMENT OF BENGAL.

Ierioation Operations for 1879-80.

Areas leased for Irrigation up to end of October 1879.

-	40	heath and	320				1.5			1	000	1	1	1	
	4	Average of ten previous years of buried same period.	Inches.	H.		1	(10 years 50-87	51.00	1	7	88-79 87-93 59-27			-	1
	RAINFALL	Inches during	Ins.	27.88	i	-1	34.75	32.15	1	1	51.00 47.45 41.72	1	1	i	1
		Inches during the month.	Inches.	5.14	1		1.58	3-48	1		3.81 6.21 4.29		month.		# 1
Saibi	orrespor year.	Orand total of the causing and total orange of the causing to private or the causing of the caus	Acr. 29,232 9,279	12,569 9,784 22,864	83,819		48,953	6,089	55,042	1	16,852 61,833 6,575	75,280		214,121	
		.IntoT	Acr. 39,296 10,632	14,264 10,051 25,347	99,590	83,819	84,951	10,896	95,847	55,042	15,220 47,968 8,200	70,488	75,260	262,925	214,121
	FOTAL.	Sugarcane.	Acr. 25	18	63	286	:	:	:	:	6,817 9,328 1,338	87,471	1,844	17,541	2,130
	GRAND TOTAL	Виррее.	Act. 984 89	532 217 307	2,189	1,741	:	124	124	:	111	1	2,102	2,313	8,843
	8	Khurreet.	Acr. 38,287 10,543	13,654 9,834 25,020	97,338	81,792	84,951	10,772	95,723	55,042	8,403 37,740 6,867	53,010	71,814	246,071	208,148
	CANB.	Leased up to end of October 1879.	Acr. 25	18	63	288	1	1		1	6,817 9,328 1,333	17,478	1,844	17,541	2,130
	SUGARCANE	Leased in October 1879.	Acr.			1		1	1	1	128	128	401	128	401
	eases.	Leased up to end of October 1879.	Acr. 984 89	592 217 307	2,189	1,741		124	124	1	II.		1,942	2,313	3,683
	Annual leases	Leased in October 1879.	Acr.		:			:			114	1	1,940		1,940
RUBBEE	cases.	Total inclusive of unexpired leases of previous years.	Aor.				1	-	-		111	1		-	
	Three-year leases.	Leased up to end of October 1879.	Acr.	1111	:	:	i	:	:	:	111	1	160	:	160
	Thre	Leased in October 1879.	Acr.		1:	:	:	;	:	:	111	N.	:	1	
	Annual leases.	Leased up to end of October 1879.	Acr.	1111	:	:	216	609	825	824	6,488 30,754 4,348	41,590	69,692	42,415	69,916
	Anr	Leased in October 1879.	Acr.	1:11	:	:	¥0	38	92	;	318	525	10,306	644	10,306
	eases.	Total inclusive of unexpired leases of previous years.	Acr.				. 12		12		1,915 6,986 2,519	11,420	80.0	11,432	4 I
KHUEREEF.	Three-year leases	Leased up to end of October 1879.	Acr.				13		13	1	846 6,312 2,140	9,198	2,222	9,210	2,222
Кни	Th	Leased in October 1879.	Acr	1111	i	1 :	;	÷	:	1	111	1	(-31)	1	(18-)
	ases.	Total inclusive of unexpired leases of previous years.	Acr. 38,287 10,543	13,654 9,834 25,620	97,338		84,723	10,163	94,886		11,1	1	1	192,224	
	Five-year leases.	Leased up to end of October 1879.	Acr. 220	736	2,244	81,792	36,680	4,207	40,287	54,218	171		1	42,531	136,010
	Five	Leased in October 1879,	Acr. 144	: 831 : 831	796	2,911	1,199	94	1,293	211	111	1	1	3,089	8,122
HR IN		Estimated dis- charge utilized.	6. ft.	1111		:	i	!			536 551 200				
STEPLY OF WATER IN	THE CANAL.	Average discharge in cubic feet per second through- out the month.	c. ft. 522-25	336-70 331-00 223-00	:		613	212			556 551 454	-	-		
Smppra	TH	Estimated full dis- charge in cubic feet per second.	c. ff. 1,269	675 1,300 650	:		875	300			4,342 1,660 1,466	- Tonas		-	W 1
×2		District. CANAL.	Kendrapara Patamoondee	Cuttack   Asertion I   Taldundah   Matchgong   Gobri	Total of the month	Total of the corresponding month of previous	Midnapore   Midnapore	Howrah Panchkoorah	Total of the month	Total of the corresponding month of previous year	Shahabad   Western Main Arrah Patna & Gya   Patna	Total of the month	Total of the corresponding month of previous year	Grand total of the month	grand total of the corre- sponding month of previ- ous year
		OTHOLIE. I		Oriens O		F	120110	Western H		H"	Sone Signal		H.	5	B R. Q

### SUPPLEMENT TO THE CALCUTTA GAZETTE, JANUARY 7, 1880.

### Weekly Return of Traffic Receipts on Indian Railways.

### EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 20th December 1879 on 1714 miles open.

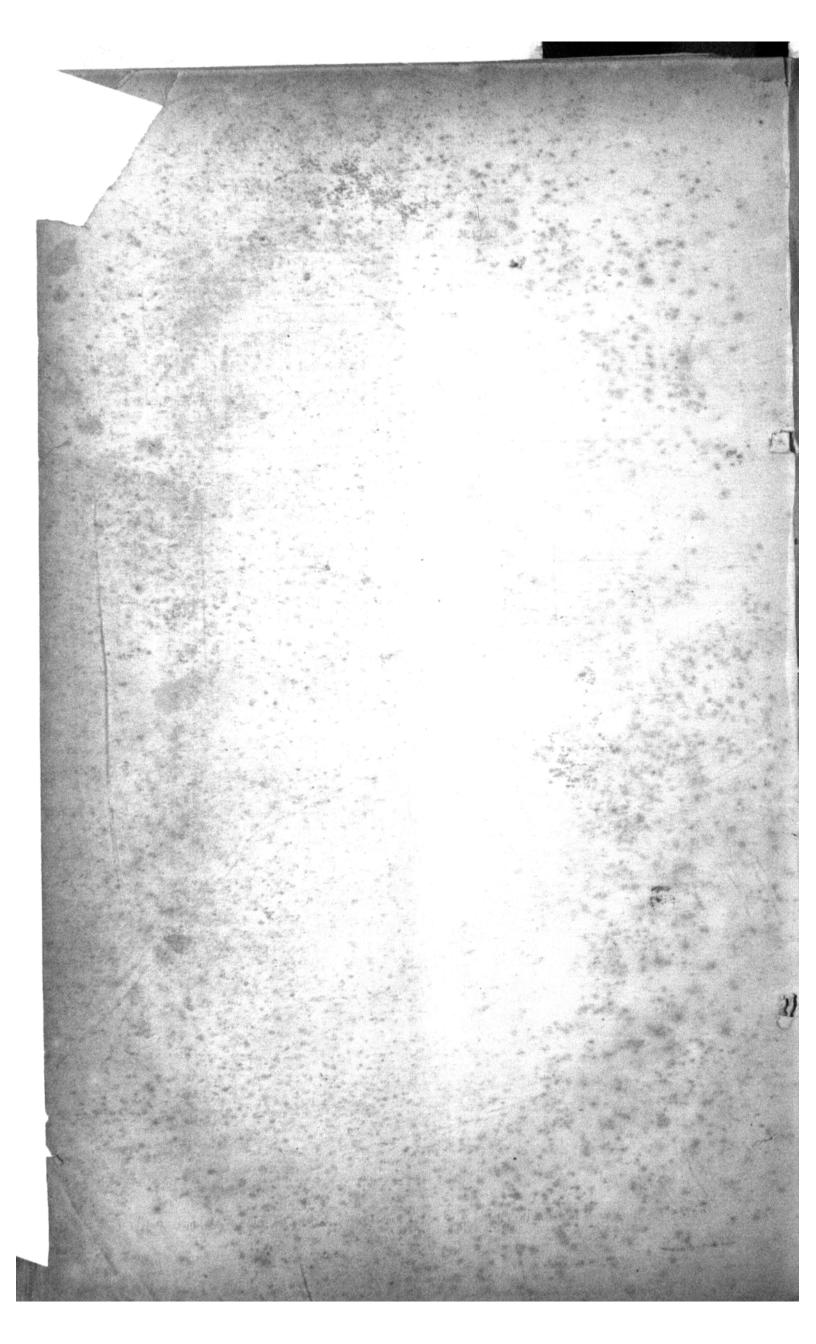
	N.	COACHING TRAFFI	J	MERCHANDI	Total		
	Number of passengers.	Coaching re	eccipts.	Weight carried.	Receipts.	receipts.	
Total traffic for the week	31,029 195 859,131	Rs. A. P. 26,556 0 0 154 9 11 5,82,526 11 5	£ s. d. 2,434 6 0 14 3 6 53,395 10 9	Mds. a. 2,89,500 0 1,633 8 56,43,655 0	Rs. A. P. & s. d. 55,913 0 0 5,125 7 2 325 8 9 29 16 10 15,45,406 11 0 141,665 9 6	£ s. d. 7,559 13 2 44 0 4 195,060 11 3	
Total for 25 weeks	890,160	6,09,082 11 5	55,829 16 9	59,24,155 0	16,01,319 11 0 146,790 7 8	202,620 4 1	
Comparison.  Total for corresponding week of previous year Per mile of railway cor. week of previous year Total to corresponding date of previous year	39,118 246 970,022½	28,201 15 3 177 10 5 6,41,658 8 2	2,585 3 7 16 5 8 59,368 14 4	1,49,664 29 942 31 48,98,573 27	34,894 3 6 3,190 7 9 219 5 4 20 2 0 14,88,389 5 5 136,435 13 0	5,775 11 4 36 7 8 195,804 7 4	

### BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

No. 48

Latest return	56 Sh	Length	RECEIPTS FOR	WEEK ENDING		PTS FROM IST UARY	mot the	Total
received.	Name of Railway.	open.	30th Nov. 1878.	29th Nov. 1879.	To 30th Nov. 1878.	To 29th Nov. 1879.	Total increase in 1879.	decrease in 1879.
1879.	A TANK	Miles	Rs. A. P.	Rs. A. P.	Rs. a. P.	Rs. A. P.	Rs. A. P.	Rs. A. 1
29th November 29th ditto 13th December 29th November 29th ditto	Northern Beugal Tirinoot Calcutta and South-Eastern Nalbati Patna and Gya	230 76 28 27‡ 57	14,501 0 0 11,305 0 0 2,169 0 0 1,478 0 0	30,586 0 0 9,565 0 0 3,323 0 0 1,617 0 0 10,060 0 0	8,10,240 0 0 5,95,056 0 0 1,15,233 0 0 82,609 0 0	11,69,503 0 0 4,02,446 0 0 1,20,462 0 0 83,544 0 0 1,92,285 0 0	3,59,254 0 0 7,390 0 0 5,229 0 0 985 0 0 1,92,285 0 0	
	Total	4181	29,453 0 0	55,151 0 0	14,03,147 0 0	19,68,240 0 0	5,65,093 0 0	





## SUPPLEMENT TO

# The Calcutta Gazette.

WEDNESDAY, JANUARY 14, 1880.

### OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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### Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 10th January 1880.

N	io.	District, a			Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and state of health at date.
BEN	NGAI	L.				
		Western	Districts			
	1	Burdwan,	Jan. 10	0 '80	Nil	Weather—seasonable. Rubbee crop less than an average in area, but doing well, except in Raneegunge. Rain everywhere wanted. Health good.
DIVE.	2	Bankoora,	. 10	) "	Nil	Weather—fair and bright. Maximum reading in shade 70.5°. Thrashing of amun in progress. Mustard, cotton, wheat, barley, sugarcane, soorgooja, &c being artificially irrigated and doing well. Cholera broken out in outpost Chhatna and in village Balshi in Bishenpore sub-division; otherwise health good.
BUNDWAR 1)	3	Beerbhoom,	, 10	) "	Nil	Weather—seasonable. Harvest complete. Few crops on ground promise well.  Foot and mouth disease among cattle in north-west of district. Cholera decreasing.
URD	4	Midnapore,	., 10		Nil	Weather - seasonable. State and prospects of crops generally favorable. Reaping of paddy almost finished.
В	5	Hooghly,	" 10	) "	Nil	Weather—rather warm for the season during early part of week, but has become cold. Wind from north. Rubbee crops and vegetables promise well. Fever abated. A few cases of small-pox in Serampore and Pandooah stations.
		Howrah,	,, 12	3 .	Nil	Weather—sensibly warmer, but fine. All cold-weather crops look well. Rice harvest finished in higher parts of district; some still uncut in lower parts. Health good. Prices inclined to fall.

No.	District and date of	Rainfall at Sudder Station in inches	
ENG	AL(Continued.)		
	Central Districts.		
1	5  24-Pergunnahs, Jan. 10 '80	Nil	Weather—cloudy during early part of week. Cold. Major portion of and reaped. Prospects of winter crops good. Health generally good; some fe cases of cholera and small-pox reported.
,	Nuddea, ,, 10 ,, Kooshtea	Nil 0:17	Weather—fine and seasonable. Winter crops doing well. Rain wanted for when and oats. Kalm and moong being harvested.
8	Jessore, , 10 ,	0.06	Weather—cool and seasonable. Amun nearly harvested. Prospects of wintercops good. Cholera in Magoora and Bagirhat disappearing.
9	Moorshedabad, " 10 "	Nil	Weather—seasonable. Rubbee crops doing well. Fever in a mitigated for still prevalent in than Burwa. Cases of cholera still in Berhampore tow but none fatal.
10	Dinagepore, Jan. 9 '80	Nil	Weather—seasonable. Winter rice nearly all cut. A very good outturn. Coarrice 20 seers per rupee. Rubbee sowings doing well. Sporadic cases of choles reported from some thanas.
11	Rajshahye, ,, 10 ,,	Nil	Paddy-cutting fast proceeding. Outturn more than an average. Rubbee crothriving. Harvesting of maskalai going on. New common rice continu 16 seers per rupee.
1,2	Rungpore, " 9 " Gaibanda …	Nil 0:15	Weather—sensonable. Outturn of amun favorable. Winter crops promisin Public health good.
13	Bogra, " 10 "	Nil	Weather-cold. Now and then cloudy. About three-fourths of amun and has of pulses gathered in Other crops doing well.
14	Pubna, -,, 10 ,,	0.10	Weather-fine. Spring crops doing well. Public health fair. Cholera abated.
15	Darjeeling, ,, 10 ,,	Slight rain, not sufficient to be gauged	Sky very cloudy and air cold, threatening rain or snow. In Terai, cutting haimanti dhan still going on; til and mustard being gathered in; lar being cultivated for bhadoi dhan. In Hills, wheat barley, and mustard fields, and prospects favorable.
16	Julpigoree, " 10 "	Nil	Weather—very cloudy. Every appearance of rain; temperature high f time of year. About 14 annas of haimanti dhan cut. Winter crops pr mising.
	Cooch Behar, ,, 8 ,, Dinbatta Mathabhanga	Nil 0·01 0·11	Weather—Not so cold as in previous week. Mornings beginning to be fogg Cutting of late rice nearly finished. Price of rice risen to Rs. 1-12. Prospec of cold-weather crops continue good. Small-pox here and there.
	Eastern Districts.		
17		0·12 0·03	Weather—cold. Cold-weather crops promising well. Public health good.
18	Furreedpore, " 10 "	Nil	Weather—fair and seasonable. Crops good. Health also good. Cholera are small-pox abated.
19	Backergunge, ,, 8 ,,	0.29	Weather—cloudy, with slight rain in former part of week. Rain damage reaped crops in places; otherwise prospects excellent. A good deal of few about.
20	Mymensingh, " 9 "	0.08	A little rain in all parts of district. State and prospects of crops good,
21	Tipperah, " 9 " Brahmuhbariah … Chandpore …	0 08 0·43 0·20	Weather—cloudy on several days of week. One or two slight showers of rai Amun reaped. Outturn everywhere good. Winter crops doing well.
/ 2		Nil	Weather—fair. Harvesting of amun completed. Cold-weather crops progres ing. Cholera in cyclone tract decreasing.
2	Noakholly, "8 "	0.80	First part of week cloudy with rain, latter part fair. Reaping of amun near over. Other crops progressing favorably.
2	4 Chittagong Hill Tracts, ,, 6 '79	1.60	Weather—rainy from 3rd to 5th. Now clear and bright. Cold-weather crop doing well. Prospects good. Cholera in Sungu sub-division abating.
1.	Hill Tipperah, " 7 79	0.30	Weather—cloudy and unsettled for greater part of week. State and prospect of crops satisfactory. Public health good.

No.	District, a	ind di urn.	ate of		Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and
зікн.а	P					•
	Patna,	Jan	10	'80	Nil	Weather—seasonable. State and prospects of crops good, but rain now wants for rubbee crops.
26	Gya,		10	,,,	Nil	Weather—cold and seasonable. Maximum reading in shade 78.8°. Reaping aghani dhan not yet completed. Prospects of rubbee crops favorable, but good shower of rain would be very beneficial. A few cases of small-pox Jehanabad sub-division. Health of plough-cattle good.
25	Shahabad,	,,	10		Nil	Weather—cold, but occasionally cloudy. Prospects of rubbee crops conting promising, and would have been still further improved by a good shower. No goor coming into market Harvesting of aghani completed. Public heal good.
28	Durbhunga,	"	10	,,	Nil	Weather-foggy and seasonable. Threshing of aghani crop in progress. Rubb continues favorable. Prices stationary. Public health good.
25	Mozufferpore,		10		Nil	Weather-cold and fine. Prospects of rubbee crops excellent.
30	Sarun,	,,	10	,, -	Nil	Weather—fine, cold, and seasonable; west wind prevailing. Prospects of cold weather crops generally favorable; but rain wanted. In some places they sirrigated. Wheat and barley in ears. Sugarcane still being cut. Prices stationary. Public health good.
3	Chumparun,	,,,	10	,,	Nil	Weather-fine and cold; foggy in mornings. Crops all very good.
/ 33	Monghyr,	Jan.	10	,,	Nil	Weather—cold and clear. Rubbee prospects excellent.
34 35	Bhagulpore,	,,	10	,.	Nil	Weather—seasonably cold. Harvesting of paddy nearly completed. Rubbee presents good. Public health generally good. A few cases of small-pox he and there.
34	Purneah,	27	10	,,	Nil	Weather—seasonable. Rubhee crops promise well.
38	Maldab,	,,	10	,,	Nil	Weather—clear and cold, but not so cold as usual at this time of year. Kanearly all gathered. Crops in field doing well. Prices stationary. Publicalth good.
36	Sonthal Pergh	18,	10	,,	Nil	Weather—seasonable. State and prospects of crops good.
RISS	Δ.					
37	Cuttack,	Jan	10	'80	0.03	Weather—clear and cold. Rice being harvested. Winter crops favorably reported. Moong being harvested. Mustard in pods. Fever and small-pox s prevalent. Common rice 15 4 to 21 seers the rupee.
38	Pooree,	"	8	,	0.11	Weather—seasonable. Sarud rice being harvested. Dalua crop doing we Sugarcane being pressed. Cold-weather crops continue good. Rice being exported to Madras Presidency on Chilka Lake. Mango blossoms have appeared a few cases of small-pox this week. Prices stationary.
39	Balasore.	,,	9	31	0.07	Weather—at commencement of week cloudy, afterwards bright and clear Late rice harvest progresses. Crops in good condition, Public heal fair.
нота	NAGPORE.					
	South-Wes		ntier			
40	Hazareebagh,	Jan	. 9	'80	Nil	Cool mornings and evenings; bright, sunshiny and cloudless days with north west wind. Dhan still being cut; rubbee prospects favorable. Slight show at Pachumba. Public health good, except a local outbreak of small-pox.
41	Lohardugga,	,,	10	"	Nil	Weather—warm, with high wind from south-west. Rubbee prospects continu good, but would be improved by rain which is much wanted. Few cases a small-pox reported here and there. General health otherwise good.
42	Singbhoom,		9	,,	Nil V	Weather—seasonable. State and prospects of crops favorable
43	Manbhoom,	,,	10	"	Nil V	Weather—clear and bright. Mornings cool. Days getting warmer. Padd harvested. Kurthi, til and soorgoojs also harvested. Gram, mustard, wheat barley, sugarcane and cotton still to be harvested. Prospects good.

Published for general information.

\*CALCUTTA, STATISTICAL DEPT., \* The 18th January 1880.

A. MACKENZIE,
Secy. to the Govt. of Bengal.

### Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

	Distr	RICTS.		STA	TIONS.		from 21st 27th Dec.	from 28th 31st Dec.		FROM 18T INUARY 1879.	Remarks
							Rain f to 2 1879.	Rain f to 3 1879.	Inches	Up to date	
C N	IGAL.						C				u
-	WESTEEN	DISTRIC	TS.				faches	Inches.		1879.	
	Burdwan		{	Burdwan Cutwa Culna Raneegungo			Nil. ditto ditto ditto	Nil. ditto ditto ditto	41.06 44.96 51.58 39.37	ditto	
	Bankoora		{	Bankoors Bishenpore			ditto ditto	ditto ditto	47·89 13·91		From 30th August.
-	Reerbhoom		{	Sooree Hetampore Roypur Rampore Haut			ditto ditto ditto dicto	ditto ditto ditto ditto	49*03 51 64 35*29 56*18	ditto ditto	
			1	Midnapore Tumlook			ditto Not recd	ditto	33.85 38.96	ditto ditto	Not received 21st to 27th Dec., and
-	Midnapore		"	Ghattal Contai { Dy. C	Collr.'s	office	Nil. Not reed	ditto ditto	34·51 48·51	ditto ditto	7th to 13th Nov.  Not received 21st to 27th Dec.
						's Office	Nil.	Not recd.		27th Dec.	
	Hooghly		. {	Hooghly Serampore			ditto	Nil ditto	41.43 44.70	ditto	
П	rioognij		(	Jehanabad Howrah		***	ditto	ditto ditto	50°44 43°35	ditto	
	Howrab		{	Maheshraka			ditto	ditto	84:47	ditto	
	CENTEAL I	)ISTRIC	rs.				Alex			1111	
			1	Saugor Island	bserva	tory	ditto	ditto	50.08 46.53	ditto	
				Alipore { 1)	ispens	ary	ditto	ditto	44.85 44.67	ditto	
4			1	Busseerhat			ditto	ditto	46.35	ditto	
	24-Pergunna	hs sda	\	Baraset Diamond Harb		***	ditto	ditto	44.35 44.62	ditto	
				Barripore			ditto	ditto	47.05	ditto	
				Satkhira Barrackpore			ditto ditto ditto	ditto	44.86 42.79 48.64	ditto ditto	
				Dum-Dum Kishnaghur			ditto	ditto	54.63	ditto	
				Borgong		200	ditto	ditto	47:20 59:86	ditto ditto	
	Nuddea		{	Meherpore Chooadanga			ditto	ditto	77.65	ditto	
/				Kooshtea Ranaghat			ditto	ditto ditto	66.07 53.54	ditto	
V			71	Jessore			ditto	ditto	56.54	ditto	
H			. 1	Narail Khoolna	***		ditto	ditto	42 36 56 91	ditto	
П	Jessore			Jhenidah	***		ditto	ditto	63.23	ditto ditto	
ı				Bagirhat Magoorah			ditto	ditto	44.74 56.25	ditto	
				Berhampore Lallbagh	***		ditto	ditto	62:39 59:79	ditto	
-	Moorshedsba	d .	. !	Jungypore			ditto	ditto	60'86	ditto	
-	1		1	Azimgunge Lalgolla			ditto	ditto	54.15 63.46	ditto	
printered and			1	Kandee			ditto	ditto	65.07	ditto	
1	Dinagepore		5	Dinagepore Raigunge			ditto ditto	ditto ditto	86.89 62.84	ditto	
1	Dinagepore		1	Mohadebpore Chooramon			ditto	ditto	91.76 80.85	ditto ditto	From 9th March.
-	M-13-1		-	Maldah			Not recd.	ditto.	70.58	ditto	Not received 21st to 27th Dec.
1			1	Chanchal Bauleah			Nil.	ditto ditto	75·44 86·88	ditto	Ditto ditto.
1	Rajshahye		. 3	Nattore			ditto	ditto	66.25	ditto	
1			(	Rungpore Bhabanigunge			ditto	ditto	108.98 79.64	ditto	
1	Rungpore		1	Kurigram	***		ditto ditto	ditto 0.12	87:03 126:86	ditto ditto	
			2	Bagdogra Bogra			ditto	Nil.	71.79	ditto	
	Hogra		.3	Sherpur Nowkhilla	***		ditto ditto	ditto	80.68 64.15	ditto	
1				Panchbibi	***	***	ditto	ditto	78.45	ditto	•
V	Pubna			Pubna Serajgunge			ditto	ditto	54.69 70.50	ditto	
1	Darjeeling		- 1	Dariaclina (To		ph Office	ditto	0.23 0.23	152.90 160.92	ditto ditto	
1			- 1	Julpigoree	ospita.		ditto	0.04	135.48	ditto	
1			11	Bodah	***		ditto	Not recd.	129.51	27th Dec.	
1	Julpigoree .		11	Titalya			ditto ditto	Nil. 0.15	221:68 132:98	31st Dec.	
1			M	Guabor Dangua Jhar	•••	•••	ditto ditto	Not reed.	83.16	27th Dec.	From 15th June.
1			1	Bamundanga	***		ditto	ditto	103.35	ditto	From 22ud June.
1			11	Dheethess	•••	***	ditto	0.04	127.77	31st Dec.	Ditto ditto.

DIVISIONS.	Districts.	STATIONS.		from 21st 27th Dec.	from 28th 31st Dec.	JAN	TROM 1ST UARY 879.	REMARKS.
DIVIS				Kan fr to 97 1879.	Rain from to 31st 1879.	Inches.	Up to date.	
EN	GAL-continued.			dental production of the second			1879.	
	CENTRAL DIS- TRICTS.—contd.			Inches.	Inches.			
10000	Cooch Behar Tribu- tary States	Cooch Behar Dinhatta Mathabhanga Mickligunge		Nil. ditto ditto ditto	0 12 0 01 0 11 Nil.	143.06 125.83 146.46 133.66	31st Dec. ditto ditto ditto	
1	Eastern Districts.  Dacca {	Dacca { Telegraph Offic Hospital Moonsheegunge Manickgunge		ditto ditto ditto ditto	ditto ditto ditto ditto	60°84 74°80 89°08 60°28	ditto ditto ditto ditto	
	Furreedpore {	Furreedpore Goalundo Madaripore		ditto ditto ditto	ditto ditto ditto	64°90 63°61 42°02	ditto ditto ditto	
-	Backergunge {	Burrisal Perozepore Patooakhally Bhola		ditto ditto ditto ditto	ditto ditto ditto ditto	55.63 66.55 84.60 85.45	ditto ditto ditto ditto	
	Mymensingh {	Mymensingh Jamalpore Atia Kishoregunge		ditto ditto ditto ditto	ditto ditto ditto ditto	80.77 94.12 51.50 84.91	ditto ditto ditto ditto	
/	Chittagong {	Chittagong { Telegraph O Jail Cox's Bazar	rfice	ditto ditto ditto	ditto ditto ditto	103 46 95 31 156 35	ditto ditto ditto	
-	Noakholly {	Noakholly Fenny		ditto ditto	ditto ditto	115.88 126.05	ditto ditto	
1	Tipperab	Commillah Chandpore Brahmunbariah		ditto ditto	ditto ditto ditto	80°30 76°77 71°17	ditto ditto ditto	
	Chittegong Hill Tracts.	Rungamatee Hill Ruma		ditto Not reed	ditto Not recd	97 71 110 94	ditto 13 h Dec.	
	Hill Tipperah	Agartola		Nil.	ditto	75.68	27th Dec.	
H	Patna	Patna Behar Barb Dinapore		ditto ditto ditto disto	Nil. ditto ditto ditto	44.73 42.84 53.16 42.35	31st Dec. ditto ditto ditto	
	Gya {	Gya Nowadab Aurungabad Jehanabad		ditto ditto ditto ditto	ditto ditto ditto ditto	44.51 29.57 58.91 47.23	ditto ditto ditto ditto	
	Shahabad {	Arrah Sasseram Buxar Bhubooab		ditto ditto ditto	ditto ditto ditto ditto	46.87 62.60 51.73 57.27	ditto ditto ditto ditto	
1	Mezufferpore {	Mozufferpore Hajeepore Seetamurhee		ditto ditto ditto	ditto ditto 0.15	60°39 43°47 66°20	ditto ditto ditto	
	Durbbunga {	Durbhunga Mudhoobunnee Tajpore		ditto ditto ditto	Nil. 0.08 Nil.	62:97 63:93 63:66	ditto ditto ditto	
(4) (a) (a)	Sarob {	Chupra Sewan Gopalgunge	:::	ditto ditto ditto	ditto ditto 0.10	49.60 51.52 55.87	ditto ditto ditto	Not recorded from 20th April to 24th May.
	Chumparun {	Motiharee Bettiah Segowlee		ditto ditto ditto	0.27 0.54 0.63	55:97 65:12 60:96	ditto ditto ditto	with many.
	Monghy: {	Monghyr Begooserai Jamooee		ditto ditto ditto	Nil. ditto ditto	64·82 36·47 38·09	ditto ditto ditto	
	Bhagulpore	Bhagulpore Soopool Muddehpoora Banka Sonbursa		ditto ditto ditto ditto ditto	ditto ditto ditto ditto ditto	51.05 77.24 67.31 49.04 68.20	ditto ditto ditto ditto ditto	
	Purneah {	Purneah Kissengunge Arrareah	=	ditto ditto ditto	0.27 0.20	131·39 72·71 82·53	ditto ditto ditto	
	Sonthal Pergunuahs	Nya Doomka Bajmehai Deoghur Jamtara Pakour Godda		ditto ditto ditto ditto ditto ditto	Nil. ditto ditto Not recd. Nil. ditto	61:40 69:86 44:11 37:05 70:22 53:29	ditto ditto ditto 27th Dec. 31st Dec. ditto	Not received from 7th to 18th Pec

DIVISIONS.	Districts.		STAT	ions.		from 21st 7th Dec.	from 28th 31st Dec.	JA	PROM 1st NUARY 879.	Remarks.
DIAL						Rain from to 27th 1879.	Rain from to 31st 1879.	Inches.	Up to date.	
RI	SSA					Inches.	Inches.		1879.	*
		r	Cuttack			Nil.	Nil.	60.62	31st Dec.	
		- 1	Jajpore		***	ditto	ditto ditto	48.99	ditto	Not received 30th Nov. to 6th Dec
1	Cuttack	≺	Kendraparah Jagatsingpore		***	ditto	ditto	44.55 24.88	ditto ditto	Ditto 9th to 15th Nov.
		l	False Point	•••		ditto	ditto	62.13	ditto	Ditto Bill to 18th 1904.
H										
U			Pooree	***	***	ditto	ditto ditto	53.40	ditto	
1	Pooree	≺	Khurdah Banpore	***		ditto	ditto	63°89 87°06	ditto ditto	From 9th March, and not reed
			Danpore	***	***	ditto	divio	67 00	ditto	15th to 21st Nov.
			Dalacare			ditto	ditto	49:62	ditto	
1			Balgsore Bhadrack	***	***	ditto	ditto	49.33	ditto	
1		1	Jellasore			ditto	ditto	43.81	ditto	
11	Balasore	≺	Sorah	***		ditto	ditto	40.35	ditto	
		i	Chandbally	***	147	ditto	ditto	67.62	ditto	
		ι	Bareepudda	•••	***	ditto	ditto	39.84	ditto	
\	Cuttack Tributar Mehals.	У	Sumbalpore	**	***	ditto	ditto	78.54	ditto	
	CHOTA NAGPORE.									
	SOUTH-WESTERN									
- 1	FRONTIER AGEN	CY.		( Jail		ditto	ditto	44.85	ditto	
			Hazareebagh	Dispensa		ditto	ditto	44.69	ditto	
	Hazareebagb	3	Pachamba	***		ditto	ditto	52.70	ditto	
	22	(	Sitagurh Mowdie Hills			Not recd.	Not recd. ditto	46.88 52.71	27th Dec.	
-			Ranchee			Nil.	Nil.	48'76	31st Dec.	
	Lohardugga	[	Palamow			ditto	ditto	44.03	ditto	
	Singbhoom		Chyebassa			ditto	ditto	47.67	ditto	
	Manbhoom	{	Purulia	***		ditto ditto	Not recd.	34.28 58.28	27th Dec.	
1			Govindpore	***	***	ditto	ditto	59.09	ditto	
-	CENT HILLS.	A								
	Sylbet		Sylhet	***	***	ditto	ditto	160.09	ditto	
- 1		(	Sibsagar			ditto	Not recd.	105.76	ditto	100
-	Sibsagar	}	Golaghat	***		ditto	ditto	75.22 70.42	ditto	
	Burmah	(	Jornat Akyab			0.01	Nil.	223.74	81st Dec.	
	Traition		,		.,,		2.111			
		(	Alwar			0.20	0.20	29.71	ditto	
	Rajpootana	}	Jaipur	***		0.62	. Nil.	32.16	ditto	
- 1		(	Sambher		***	0.15	0.13	23.19	ditto	

METEOROLOGICAL OFFICE, BENGAL, The 10th January 1880. H. F. Blanford,
For Meteorological Reporter to the Govt. of Bengal.

### Results of the Meteorological Observations taken at the Alipore Observatory from 4th to 10th January 1880.

1000			barometer	Tı	MPBBA	TURE.		В	YGROM	BTRY.		Wird.			
Month.	Date.	Maximum in sun.	Mean pressure barot at 32° Fah.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Jew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	Weather.
1880.		0	Inches.	0	0	0	0	0	Inches	0	0/0			Inches	
Jan.	4th	115.8	29.869	67.8	73.1	8.8	64 2	64.7	0.572	62.8	84	Till 8-45 A.M. N, till mid- night N by E.	79	Nil	Cloudy, o, g, & d.
,,	5th	114.2	.913	67.7	77.2	13.2	64.0	61.4	.463	56.8	69	Till 3-30 A.M. N by E, till noon N, till midnight N W.	63		Morning cloudy, rest clear, o, g, f, & w.
	6th	181.3	.917	63.6	76 2	23.2	58.0	57.9	·408	53.3	72	Till 9 a.m. N W, till moon N by W, till midnight W S W through N W & W.	39		Clear, f & w.
n	7th	132.4	847	63.6	76.9	23.9	53.0	57:5	404	53.0	71	Till 9-45 a.m. N W by W through W, till moon S W, till midnight W N W.	57		Clear, f & w.
,"	8th	131.7	*844	62.8	76.1	24.9	51.2	56.1	.365	50.3	67	Till 10-30 a.m. W N W, till 8 p.m. W, till midnight W S W.	63		Clear, f & w.
"	9th	137.1	*829	63.6	77.9	25.7	52.2	57.1	'362	50.0	63	Till 11 A.M. W S W, till midnight W by S.	59		Clear, f & w.
"	10th	138.5	.831	63.6	79.8	28.5	51.3	56.4	'364	50.2	62	Till noon W by S, till midnight S W.	62		Clear, f & w.

The mean pressure of the seven days	 Inches. 29.864 30.020	
The mean temperature of the seven days	⊖ 64· <b>7</b>	
The average temperature of the corresponding period for 24 years S. G. Office	 67.3	
The extreme variation of temperature during the seven days	 28.6	
The maximum temperature during the seven days	 79.8	
	%	
The mean relative humidity during the seven days	 70	
The average relative humidity of the corresponding period for 24 years S. G. Office	 71	
	Inches.	
The total fall of rain from 4th to 10th January 1880	 Nil.	
The average fall of the corresponding period for 24 years S. G. Office	 0.11	
The total fall from 1st to 10th January 1880	 Nil.	
The average fall of the corresponding period for 24 years S. G. Office	 0.11	

The mean pressure, temperature, &c., are deduced from observations made at 6h., 10h., 16h., 22h.; the maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the They are exposed under a thatched shed open at the sides, and are suspended four feet Kew Observatory. above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86,

formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction and movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling, f fog, w dew.

METEOROLOGICAL OFFICE, INDIA,

The 12th January 1880.

HENRY F. BLANFORD,

Meteorological Reporter to the Government of India.

Abstract of the results of Meteorological Observations taken at Alipore Observatory in the month of December 1879.

	Inches. Date. Hour.	
The mean pressure of the month	29-977	
The average pressure of 24 years	30.027	
The highest pressure during the month	30·115 22nd 10h.	
The lowest pressure during the month	29.847 29th 16h.	
The range of pressure during the month	0.268	
	0	
The mean temperature of the month	64.2	
The average temperature of 24 years	68.0	
The highest temperature during the month	79·1 16th & 27th	
The lowest temperature during the month	48·3 25th	
The range of temperature during the month	30.8	
The mean daily range of temperature during the month	19.7	
The greatest range of temperature in one day during the		
month	27.5 27th	
	°/。	
m		
The mean humidity during the month	71	
The average humidity of 24 years	71	
	Inches.	
The mean vapour tension during the month	0.433	
The average vapour tension of 9 years		
The mean cloud proportion of the month	2.25	
	Inches.	
The total rainfall of the month	. 0.41	
The average fall of 48 years	0.23	
The greatest fall in 24 hours	0·37 11th	
	Days.	
The number of rainy days in the month	2	
The average number of rainy days of 24 years	Nil.	
, , ,	0	
The mean maximum equilibrium temperature of solar radiation	1	
of the month	100.0	
The mean difference of sun and air temperatures	5.4.0	
The greatest sun temperature	140.7	
The greatest excess of sun over air temperature	65·2 4th	
The mean temperature of nocturnal radiation thermometer		
on woollen cloth	45.9	
The mean depression of nocturnal radiation thermometer		
below the minimum of air	10.2	
The greatest depression of nocturnal radiation thermometer		
below the minimum of air	18·0 30th	
	Miles.	
The mean movement of the wind per day	72.4	
The greatest movement of the wind in one day	112·0 22nd	
The greatest movement of the wind in one hour	16·0 22nd 11 to noon.	
The number of hours under each of the 8 points-		

N 337, NE 92, E 13, SE 9, S 18, SW 10, W 30, NW 118, Calm 117.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and other things being equal, reads therefore '003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 2° or 2½° lower; and finally, the thermometer, which has furnished the record of temperature at the Surveyor-General's Office during the last 20 years and upwards, is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

H. F. Blanford, Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA, the 7th January 1880.

and the state of

### PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing the total amount of Traffic and Tolls on the Canals for the month of November 1879.

### ORISSA CIRCLE.

Kendrapara Canal and its branch to Gundukia on the Gobri River.

### LENGTH OF CANAL OPEN-54 MILES.

APPROXIMATE TONNAGE OF BOATS.  Ton Tollage.	
Ton Tallare	
	Rate of toll per ton mile.

### LOCAL TRAFFIC.

### (1) PRIVATE.

- 1								Mds.	Rs.				TO -		_	
													Rs.			Δ.
28	Paddy	***	***	***	***	***		4,035	8,070	6,485	232	8,920	206	8	0	
34	Rice		***	***		***		11,100	44,400	18,898	675	28,350	561	4	0	****
7	Spices			***				1,400	28,000	2,873	103	4,326	112		0	
9	Gram		***	***		***		844	1,416	1,496	54	2,147	46	4	0	
9	Salt		***		***			1,700	8,500	2,609	93	3,256	63	8	0	*****
11	Dry-fish	***				***		711	4,977	1,607	57	1.826	40	0	0	*****
4	Turmeric			***				360	1,800	728	26	1,092	27	0	0	
- 1	Ghee					***		10	400	36	1	42	1	0	0	
6	Gunny-bag	8						450	2,700	908	32	1,344	26	4	0	
8	Jaggery							2,370	11,850	3,969	7.42	3,484	84	0	ŏ l	
6	Gingelly				***			660	3,220	1,308	47	2.014	44	0	0	
1	Cotton	***	***	***	***			50	500	112	4	168	3	0	0 :	***
2	Timbers		***	***	***		***	150	400	376	13	364	5	ö	0	
2	Earthen po	ts	***	***				25	9	65	2	45	1	8	o l	****
1	Tilseed			***		***	***	100	400	171	6	24	3	0	0	****
	Flax	***	***	*	***	***	***	250	800	345	12	144	9	12	0	****
1	Doors		***	***	* * *	***	***	30	150	94	3	126	2	12	0	****
2		***	***	***	***	***	***	300	800	304	11	468	15			****
1	Bones	***	***	***	***	***	***	260	4,350	536	20	284	10	0	0	***
3	Oil	**	***	***	***	***	***			577				8	0	
4	Castor seed		***		***	***	***	300	1,400		21	752	17	4	0	
3	Hides		***		***	***	***	1,192	11,920	1,853	66	2,604	73	0	0	
4	Firewood		***			1.00		540	54	1,121	40	1,874	38	8	0	
1	Miscellaneo	aus		. * *		***	***	100	500	168	6	252	4	8	0	
2	Sleeper					144		700	2,800	1,034	37	1,554	40	0	0	
23	Miscellaneo	nis g	oods, &	c., of 1	dessr	s. Bull	ock,		1						- 4	
	Wellsted				***			******	,,,,,,	15,020	536	21,440	401	8	0	
1	Passengers			ber)						813	29	1,169	27	13	8	****
5	Empty boa		***	,						24,011	858	30,166	635	11	0	
-	zimpey bon		•••					27,637	1,38,416	87,517	3,126	117 700	0.700	-	-	-
7	300/45				1	otal	***	27,007	1,05,410	51,017	3,126	117,729	2,500	8	8	0
8	Tota	al of	same n	nonth	last y	ear		35,902	1,47,434	115,695	4.131	147,312	3,348	7	10	θ
		M	SCELL	ANEOL	TS.											-
													288	0	8	
4	Passengers	1586	in nur	noer)	***	***	***	******	950		******					****
6	Bamboos (2 Timber (76	0,95	mnu	mper)	***		***	******	350		*****		64	8	0	****
19	Timber (76	m n'	umber	") …	***	***	***		76	******			10	2	0	****
10	Demurrage	on t	ooats		***	***	***	*****		******	******	71111	1	4	0	****
0					3	Total			426				363	14	8	
22	Tot	ai o	same	month	last	year			340				418	11	5	
															-1	
	The state of the s							1	1						- 1	

### (2) STORES AND MATERIALS FOR IRRIGATION WORKS.

Nil	 						
Total	 		*****				,,,,,,
13 Total of same month last year	 2,540	2,700	4,977	177	5,900	150 0 0	0 4
MISCELLANEOUS							
17 Bonts passed free*	 		Nil		******		
Total	 *****						******
45 Total of same month last year	 	*****					

In comparing with the corresponding month of last year, there appears to be a decrease of Rs. 903 in the private trade, which the to the falling off of traffic in items rice, paddy, gram, sleeper, passengers, empties, &c.

A memorandum of free boats is attached.

### Kendrapara Canal—continued.

r of		APPRO	XIMATE	TONNAGE (	OF BOATS.			Rate o
Number boats.	Nature of cargo.	Weight of cargo.	Value of cargo.	Mds.	Tons.	Ton mileage.	Tollage.	toll per ton mile
			47					
		ABS	TRACT.					
		ABS		1				- 40
-		Mds.	TRACT.	40			Rs. A. P.	A. P
<b>437</b>	Private, including miscellaneous Government stores, including miscellaneous			87,517	3,126	117,729	Rs. A.P. 2,864 7 4	A. 3
		Mds. 27,637	Rs. 1,38,842			1,000	2,864 7 4	1 TO CO. CO.

\* Of this, Rs. 869-18-4 is the total collection of Gobri Canal lock, and Rs. 2,194-8-0 is the collection of Kendrapara Canal locks.

	No	TE.							Rs.	۸.	₽.
Unrecovered balance on the 1st of the m	onth				417	***	***	***	1,957	1	3
Amount of tollage for the month		***	***	***	***	***	***	***	2,864	7	4
Amount credited in the account for the	mont	h				To	otal 		4,821 2,832	8	7 8
Balance at the end of the month						***		***	1,989	7	11

MEMO. OF FREE BOATS.

	No. of	boats.	Maunds.	Tonnage.				
					Rs.	A.	P.	
turning	mpty	7 2 3 5	1,127 1,995 3,894 3,055	40 71 140 109	34 57 114 90			
		-	-	-	Person	-	-	
otal	1	.7	10,071	360	296	0	0	
	turning o	ity ir works durning empty Jo.	r works 2 durning empty 3 Do 5	r works 7 1,127 r works 2 1,995 thrning empty 3 5,894 20 5 3,985	ity 7 1,127 40 r works 2 1,905 71 thrning empty 3 3,894 140 co 5 8,055 109	Res. of boats. Haunds. Tollinge. real Rs. of the property of t	Ro. of boats. Haunds. Follows:  Rs. A.  ity 7 1,127 40 34 4 remaining empty 3 5,894 140 114 12 co 5 3,055 109 90 0	realizable  Rs. A. P.  1ty 7 1,127 40 34 40  1r works 2 1,905 71 57 0 0  1tyring empty 3 3,894 140 114 12 0  20 5 3,055 109 90 0 0

### High Level Canal, Range I.

### LENGTH OF CANAL OPEN-37 MILES.

### LOCAL TRAFFIC.

### (1) PRIVATE.

4 20 19 2 2 2 2 2 10 6 1 19 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 3 3 4 4 3 3 3 3	Paddy Rice Salt Jaggery Castor-seed Hides Salt-fish Oil-cake Gingelly Gram Cocoanut Timbers Sundries Passengers (197 Empty boats	in number)			320 1,973 1,985 1990 312 90 185 100 1,620 570 10 1,200 70	640 7,892 9,925 050 1,092 900 1,850 100 6,080 855 20 3,856 100	658 4,087 3,407 434 625 183 488 233 2,440 1,105 2,373 122 5,587 3,787	24 146 121 16 22 7 7 17 8 87 39 1 85 4 200 135	809 4,857 3,514 222 179 222 527 282 2,962 783 3,53 2,881 120 13,594 3,694	125	793001184012471212	030008300003099		
144			To	tal .	 3,525	34,260	25,554	912	34,679	754	2	6	0	4.3
115	Total of	same month	last ye	nr .	8,681	33,551	20,240	722	22,098	591	9	3	0	6.1

### (2) STORES AND MATERIALS FOR IRRIGATION WORKS.

42 1 26	Rubble stone Laterite stone Empty boats	=	14,500 700	226 11	20,863 1,200 8,206	745 43 293	745 43 1,487	208 12 51	0 0 8	0 0	100	*****
69	Total		15,200	237	30,269	1,081	2,275	271	8	0	1	10.0
104	Total of same month last year		17,395	7,237	48,368	1,726	14,747	653	0	Ô	0	3:1
	MISCELLANEOUS.											
3	Boats passed free*		*****			*****		***				
. 3	Total	[	******			- 200111						
	Total of same month last year		· dester		******		*****				200	

### High Level Canal, Range I .- continued.

of		APPROX	IMATE	TONNAGE	OF BOATS.			Dete
Number boats.	Nature of cargo.	Weight of cargo.	Value of cargo.	Mds.	Tons.	Ton mileage.	Tollage.	Rate of toll per ton mile
		ABS	TRACE.					
144	Private, including miscellaneous Government stores, including miscellaneous	Mds. 8,525 15,200	Hs. 34,260 237	25,554 30,269	912 1,081	34,679 2.275	Rs. A. P. 754 2 6 271 8 0	A. P.
216	Grand total	23,725	34,497	55,823	1,993	36,954	1,025 10 6	
219	Grand total of same month last year	26,076	40,788	68,608	2,448	36,845	1,244 9 3	
46		-						
		-	NOTE.				Rs. A. P.	
	Unrecovered balance on the 1st of t Amount of tollage for the month	the month			***	1	520 0 6 ,025 10 6	
	Amount credited in the accounts for	r the month			Total	1	,545 11 0 741 8 9	
	Balance at the end of the month				***	***	804 2 3	
198		MEMO. OF	FREE BOA	TS				-
	Particulars.		No. of be		Haunds.	Tonnage	Tollas	
	Passenger boats for Government officials	s on duty	8		411	14	Rs. A. 8 4	
	Tota	1	3		411	14	8 4	0

### Taldunda Canal.

### LENGTH OF CANAL OPEN-27 MILES.

### LOCAL TRAFFIC.

### (1) PRIVATE.

-	*		***	-			-	The state of the s						
6 1 10 1 1 33 24	Paddy Rice Spices Rubble Lime Fuel Passengers Empty							1,907 107 107 3,988 234 107	2,375 325 200 132 100 25	3,051 643 643 6,814 435 644 18,908 6,591	1 09 23 23 243 16 23 67 5 235	1,199 46 46 973 419 46 1,350 1,413	18 1 3 3 5 6 3 3 6 34 1 3 4 5 8 3 3 6 94 8 9 34 5 2	
77					r	otal		6,450	3,157	37,729	1,347	5,492	195 0 7	0 8
36	Tot	al of	same	montl	a last	year		2,595	3,734	16,956	603	5,066	111 13 10	0 4
	M	Isci	LLAN	eous.										
	Bamboos ( Timber (4 Passengers	in n	umber	) .	***				470 25				60 8 0 1 8 0 2 11 4	
					r	otal			495				64 11 4	
	Tot	al of	same	month	last	year			355				31 6 7	
	48			(	2) S7	FORE	S AN	D MATERI	ALS FOR I	RRIGATION	WORKS			
1	Earthen sl							305	100	507	18	270	2 8 7	

1 1 2 4	Earthen shoots Wooden poles Brushwood Empty			:::	:::		305 435 224	100 50 40	507 660 350 554	18 23 13 20	270 70 63 138	2 8 3 4 1 12 2 12	0	*****	
8					otal	,,,	964	190	2,071	74	541	10 5	8	0 3.6	
4	Total of s	ame	month	last	year		327	220	957	34	319	8 0	2	0 4.8	

### ABSTRACT.

77 8	Private, including miscellaneous Government stores, including miscellaneous	6,450 964	3,652 190	87,729 2,071	1,347 74	5,492 541	259 11 11 10 5 8	
85	Grand total	7,414	3,842	39,800	1,421	6,033	270 1 7	
40	Grand total of same month last year	2,922	4,809	17,913	639	5,385	151 4 7	

a security of the second	No	OTR.								Rs.	A.	P.
Unrecovered balance on the 1st of t	he month	***	***	***	***		***	***	***	44	7	8
Amount of tollage for the month		***	***	***	***	***	***	***	***	270	1	7
Amount credited in the accounts for	r the month		***							314 172	9	
Balance at the end of the month		444	,ess.	***	***	***	201	*91		142	1	2



# High Level Canal, Range II. LENGTH OF CANAL OPEN-121 MILES.

-						Pari		1
Jo .		APPROX	IMATE	TONNAGE O	OF BOATS.	man	Tollage.	Rate of
Number boats.	Nature of cargo.	Weight of cargo.	Value of cargo.	Mds.	Tons.	Ton mileage.	Tollage.	toll per ton mile.

### LOCAL TRAFFIC.

### (1) PRIVATE.

					 					inacione and a second	and the second	n management of the second
					Mds.	Rs.				Rs.	А. Р.	А. Р.
4 6 2 5 1 1 1 16 24	Paddy Rice Jaggery Salt Castor seed Chillies Moong Passengers (169 Empty boats		,		1,240 1,240 200 1,300 150 50 100	580 4,960 1,000 6,500 600 600 400	520 2,465 374 2,082 262 122 207 4,044 5,289	19 89 13 74 9 4 7 145	247 1,157 156 888 108 48 84 1,762 2,397	9 48 7 40 5 2 4 79	8 0 0 0 0 0 8 0 0 0 0 0 9 9 8 3	
60	Empty boats		7	Cotal	 3,330	14,640	15,395	549	6,847	295	2 0	0 8'3
- 83		ame month		rear	 4,646	17,136	12,644	449	5,561	237	12 6	0 8'2
	Small dongahs	(89 in num	ber)		 ******					10	8 0	
			2	Cotal	 					-	8 0	*****
	Total of s	ame month	last y	ear	 	12				0	9 0	

In comparing with the corresponding month of last year, the private trade shows an increase of Rs. 68, which is due to the increase of traffic in items salt, passengers, and empties.

### (2) STORES AND MATERIALS FOR IRRIGATION WORKS.

	* 10.00.00		-	Bearing trees - House					and the second s				AND DESCRIPTION OF THE OWNER, WHEN PERSONS AND ADDRESS OF		A STATE OF THE PARTY OF T	
91 3 88	Rubble st Laterite s Empty be	tone	***				:::	25,000 2,800	390 44	46,866 4,494 18,713	1,674 160 668	20,088 1,920 8,016	911 89 356	8 0 0 8 0	1000	SECURITY OF
6.2	Empty bu	avs		***	***	***		******	******	10,110	000	0,010	000	0 0	2011117	
***											NAMES OF TAXABLE PARTY.	distinguished to come	-	-	a constitution of the last	Đ.
182					,	$\Gamma$ otal		27,800	434	70,063	2,502	30,024	1,357	0 0	0 87	
-										THE RESERVE THE PERSON NAMED IN		Industrial Provide		-	and the same of the same of	
32	To	tal of	same	e month	last	year	***	2,063	206	7,404	248	3,193	142	6 0	0.85	
	1														1.	

### ABSTRACT.

						4.100.100.00			-	
60 182	Private, including miscellaneous 3,330 Government stores, including miscellaneous 27,800		14,640 434	15,895 70,063	549 2,502	6,847 30,024		5 10 7 0	0	
242	Grand total 31,130		15,074	85,458	3,051	36,871	1,66	2 10	0	
115	Grand total of same month last year 6,709		17,854	20,048	697	8,75	38	0 11	6	
	Unrecovered balance on the 1st of the month Amount of tollage for the month	:::	NOTE.				Rs. A. 930 5 1,662 10	6		
	Amount credited in the accounts for the month	٠			Total		2,592 15 964 2	6		
	Balance at the end of the month						1,628 13	6		

### High Level Canal, Range III.

### LENGTH OF CANAL OPEN-61 MILES.

### LOCAL TRAFFIC.

### (1) PRIVATE.

1 1 1 17	Paddy          Rice          Salt          Moong          Passengers (97 in number)          Empty boats	80 95 300 100	160 380 1,500 400	139 170 515 198 6,315 413	5 6 18 7 226 15	70 84 257 98 1,596 210	2 8 0 3 0 0 10 0 0 3 8 0 121 13 11 7 8 0	
22	Total	 575	2,440	7,750	277	2,315	148 5 11	1 0.3
26	Total of same month last year	 1,571	3,286	4,889	174	1,229	95 9 11	1 1.8
	MISCELLANEOUS.							
	Timber (64 in number)	 	256				12 0 0	
	Total	 	256				12 0 0	
	Total of same month last year	 	400				28 4 1	

In comparing with the corresponding month of last year, the private trade shows an increase of Rs. 36, which is due to the increase of traffic in items salt and passengers.

### High Level Canal, Range III.—continued.

J0		APPRO	XIMATE	TONNAGE	OF BOATS.		.21	Rate of
Number boats.	Nature of cargo.	Weight of eargo.	Value of cargo.	Mds.	Tons.	Ton mileage.	Tollage.	toll per ton mile.
		AB	STRACT.					
22	Private, including miscellaneous Government stores, including miscellaneous	Mds. 575	Rs. 2,696 ◆	7,750	277	2,315	Rs. A. P. 160 5 11	A. P.
22	Grand total	575	2,696	7,750	277	2,815	160 5 11	
26	Grand total of same month last year	1,571	3,686	4,889	174	1,229	123 14 0	
	Unrecovered balance on the 1 Amount of tollage for the more		nth			Rs. A 110 2 160 5		
	Amount credited in the accou	nts for the n	nonth		Total	270 8 119 0	-	
	Balance at the end of the mor	nth				151 7	8	

### SOUTH-WESTERN CIRCLE.

Midnapore Canal.

LENGTH OF CANAL OPEN-53 MILES.

### LOCAL TRAFFIC.

(1) PRIVATE.

												}		1.0
7	Betel-leaves				***	***	1,200	6,060	4,050			15 1	13 0	
2	Betel-nuts						300	3,400	675			- 4	15 6	
ĭ	Pones		***				40	40	100	******		1	2 0	
2	Duigke and tiles	(900)	in nun	nber)	***	***	90	26 .	400			3	8 0	
,	Brass and coppe	rand	their	man	ufactu	res	5,960	2,22,047	15,500	******		134	11 0	
,	Coal and coke					***	8,000	4,225	17,765		*	188	1 6	
,	Cotton, raw	7		***		111	850	15,780	3,865				12 3	
	Cocoanuts (95,75	0 in r	numbe	(r)		***	1,076	2,801	7,750				2 6	
	Cotton, twist an	d var	n (Eu	ropes	m)		7,700	2,69,945	22,350				7 0	
1		de (E	prope	an)	,		1,390	75,700	4,275				15 0	
2		(I)	ndian)	)			606	60,600	4,795		1		3 0	
13	Do. ditto						1,095	2,625	5,525		******		4 6	
Ġ.	Curd	***	***	***					82,305		******		13 6	
	Empty boats	***	***	***			3,070	885	8,440		******			
	Earthenware	***	***		***	***	880	378	2,580	*****	*****		3 0	
1	Firewood	***		1.00	***	***	2,144	3,230	4,780	******	111744		4 9	
۲,	Fruits and nuts	of all	kinds		***	***		32,180	22,435				4 0	
	Gram and pulse	***	***		***		8,500			******	1012.11	228 1		
1	Goats and sheep	(680 i	in nun	nber)		***	130	965	730	*****		7 1		
100	Gunny-cloths (30	00 pie	ces)		***		150	900	650		******		7 0	
	Horns			***	***		150	1,500	475	*****			2 6	
ě	Hides of cattle, u	ntani	ned (9	,450 i	n nun	ber)	1,250	13,550	2,805			35 1	5 3	
	Iron and its mar	nfact	ures				525	4.185	1,585			17	2 6	
	Jute, raw		111		***		6,525	23,228	16,340			79 1	4 6	
	Lime and limest						170	85	550				6 0	****
ġ							40	600	190			1 1		*****
ű	Liquor	***					4.004	10,387	18,940		******	182 1		*****
4	Miscellaneous	***	***	***			4,760	19,440	11,625		*****	85		*****
1	Mustard	***	***	***	***		1,645	12,550	4,540	*****	******	69 9		
3	Oil	***	***	***	***	***	3,200	8,900	6,759	****	******			-44
4	Other oilseeds		***	***	***			250		*****	******	99 11		
d	Other saline sub	stanc	ės –	***	***	***	140		675	*****		9 1		
4	Oil-cake		***		***	***	443	445	1,600	*****	111	11 14		
	Other fibres, raw			***	***	***	305	1,525	1,000			8 11		
d	Passenger boats				***		******		99,120	*****		965 1		
4	Paddy		11.00				21,903	85,951	44,365	******		666 13	3 9	
4	Rice						21,556	64,825	46,670			473 9	9 8	
4	Silk, raw				***		458	61,780	4,425			38 3	3 9	
3					***		35,815	1,48,030	66,150	******		756 0	0 (	117748
4	Salt	101					5,090	1,522	12,925			91 13		*****
7	Straw (284 kahur		***	***	***		5,910	852	11,540			51 11		
4	Sand	***		***	***		3,655	24,850	7,650	*****		99 2		******
1	Stone-plates	***	***	***	***		1,785	11,120	5,145	*****		30 14		******
Æ	Sugar, unrefined	***	111	**	***	***	300	4,000	800	*****				******
9	Sugar, refined	***		***	***	***				*****	******	5 13		
1	Sal piles (5,341 in	num	ner)	***	***	***	12,386	16,367	19,050	*****		331 3		
1	Stamp paper	***	***	***	***	***		5,000	100		*****	3 0		******
9	Spices	***	***	****	***	***	1,620	12,050	4,225	******	*** **	57 7		
1	Timbers (408 in 1	numb	er)				2,259	4,227	2,090	******		72 5		*****
1	Tobacco	***	***	***		***	5,850	35,430	14,550			155 1		******
4	Vegetables and o	ther l	kinds (	of pro	vision	8	96	173	470	******		2 5		
1	Wheat						1,160	5,000	3,800			36 0	0	
d						1	1 90 901	70 00 FF0	0.10.100	00.111		2 202 2		-
1				100	otal		1,86,201	12,29,558	6,19,120	22,111	4,01,701	6,293 3	-	0 8
4	Total of s	ame i	month	last	year	"	2,20,972	13,01,136	6,52,605	23,307	3,94,132	5,929 10	6	0 3
0			NEOU							4 (10.000)			1	
1	Passengers (18,28	7 in n	umber	r)	***		menes .	*****			******	326 9		
B	Demurrage, &c.		***		***	111	1010			******		18 7	0	
0	Boats passed free	1	***	***	***		******	******				******		******
1					100	31			-	-			-	
				T	otal					*****	rena.	345 0	6.	
es.	Total of sa	****	anth	last v	rear							238 0	9	

### Midnapore Canal-continued.

r of		APPROX	IMATE	TONNAGE O	F BOATS.	ESPACE TO THE REAL PROPERTY.			Rate o
Number boats.	Nature of cargo.	Weight of cargo.	Value of cargo.	Mds.	Tons.	Ton mileage.	Tolla	ige.	toll per ton mile
	(2) STORES AN	D MATERIA	ALS FOR I	RRIGATION	WORKS				
1 5	Coal	Mds. 500	Rs. 155	775 1,625			14	A. P. 10 0 12 0	
6	Total	500	155	2,400	86	4,542	63	6 0	
6	Total of same month last year	1,160	3,886	2,760	98	2,433	37	9 3	
		Al	BSTRACT.					and the same of	
4,134	Private, including miscellaneous Government stores, including miscellaneous	1,86,201 500	12,29,558 155	6,19,120 2,400	22,111 86	4,01,701 4,542	6,638 63	3 6 6 0	
4,140	Grand total	1,86,701	12,29,713	6,21,520	22,197	4,06,243	6,701	9 6	
4,225	Grand total of same month last year	2,22,132	13,05,022	6,55,365	23,405	3,96,565	6,205	4 6	

<sup>\*</sup> This includes tolls on the Naraingur Channel amounting to Rs. 78-2-3.

Note.						Rs. A. P.
Unrecovered balance on the 1st of the mouth		***	***	***		678 14 8
Amount of tollage for the month	111	***	***			6,701 9 6
						Broomwood amortogo
			r	otal		7,380 7 9
Amount credited in the accounts for the month	***	***	***		***	6,426 10 6
						Married Street, Square of Street, Square, Street, Square, Squa
Release at the end of the month						053 13 3

### REMARKS.

The increase in weight of cargo carried and in the tonnage of boats is proportionately much more than the amount of tolls realized. The percentage of increase in the former two items are 20 and 24 per cent.; whilst that in the latter, it is only 4 per cent. The Executive Engineer has been requested to explain the cause of this difference in the percentage of increase.

# Hidgellee Tidal Canal. Length of Canal open—29 miles. LOCAL TRAFFIC.

### (1) PRIVATE.

Barboos (300 in number)						i				
Bamboos (390 in number)	- 0	Potol mut		160	600	600				
Cloth	30									(4444)
Coccanut (3,100 in number)										******
Cotton, raw										******
Coal							******			******
Empty boats   Section								******		*****
Earthenware (12,220 in number)			***	920			******	*****		******
Firewood		Empty boats	***							
Fish	16		***				******		11 10 9	
Fish			***						6 3 0	******
Fish, dry	1		***						1 5 9	
1   Ghooting	1		* **						1 1 3	
1   Goran wood	10	Ghooting	***	1,120	129	2,225				
Hemp	1	Goran wood	***			50				
Hental wood	10	Hemp		920	4.160	2,550	l .		17 8 6	
1   Jute	1			150						
6 Lime				15	40					
Miscellaneous		Time								
Mats (2,200 in number)		34.								
8 Mustard										reaser
Subsection   Sub		37			1,168					******
Paddy		Oil colso					******	,,,,,,,		******
Passenger-boats   S,304   9,353   6,740   50   15   8   15   15   15   15   15   15								******		******
Sice   Straw (389 kahuns)		Dessaymen boats					******			41433
Straw (389 kahuns)		Dina					******			*****
5         Sand         950         57         1,425         912 9         9			***				******	******		Extres.
Sugar unrefined   40   160   90   0   0   9   9   1   1   1   1   1   1   1   1			***					******		*****
Sugar-cane			***					******		******
Sal plank   Sorkee   Sol plank		***				******	******			
Sat plank			***							
Sorkec			***			375			5 10 9	
Salt	1			20		60			0 6 6	
Sugar, refined   10   90   30     0   8   0     10   100	26		***	5,255	20,239	9,400			82 2 0	
Total of same month last year   Total of same month last yea				10	90	80				
Teak plank	2			150	600	440				
Total   Tota	1	Teak plank		10	100	100				
1.332 Total of same month last year 1,10,690 2,59,974 2,95,755 10,563 2,03,559 3,568 10 9 0 3'3  MISCELLANEOUS.  Passengers (.56 in number)	33	(Himshow (400 in number)		2,522	8.013					
1.760 Total of same month last year 1,10,690 2,59,974 2,95,755 10,563 2,03,559 3,568 10 9 0 3'3  MISCELLANEOUS.  Passengers (550 in number)	*			-		29000			AU AA U	*****
MISCELLANEOUS.  Passengers (550 in number)	1,332	Tota	l	73,242	1,55,849	1,88,730	6,740	1,10,136	1,940 6 0	0 8.8
MISCELLANEOUS.  Passengers (550 in number)	1,760	Total of same month last year		1,10,690	2,59,974	2,95,755	10,563	2.03,559	3,568 10 9	0 3.3
Passengers (550 in number)	-	**						-	-	-
Passengers (550 in number)   19 6 0       Demurrage, &c   17 4 0       Rafts of timber (36 in number)   88 6 0       Total   125 0 0       Total of same month last year		MISCELLANEOUS.		100000		1 4 1 1 1				CONSTRUCTION
Demurrage, &c 17 4 0 88 6 0  Total 125 0 0  Total of same month last year	No.	L				10000	1000	A Charles		
Demurrage, &c						1			19 6 0	
Rafts of timber (36 in number)		Demurrage, &c					1 - Control of the Co	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Total of same month last year		Rafts of timber (36 in number)								
Total of same month last year	-							27000		
Total of same month last year 99 10 6		Tota	1					******	125 0 0	*****
Local of same month mat year           99 10 6		Total of same month last was					-	-		
	***	Total or same month last yea	***	******	******	******	Visio.		99 10 6	
	- principal and the second	A STATE OF THE PARTY OF THE PAR	-							290 000 1996

### (2) STORES AND MATERIALS FOR IRRIGATION WORKS.

	Nil								
	Total								
1	Total of same month last year	***	20	100	125	4	129	2 4 3	

### Hidgellee Tidal Canal-continued.

jo .		APPROX	IMATE	TONNAGE	OF BOATS	Ton	ou the second	ton mile
Number boats.	Nature of cargo.	Weight of cargo.	Value of cargo.	Mds.	Tona	mileage.	Tollage.	toll per ton mile
		ABST	RACT.		e - 40°.		-	TO THE STATE OF TH
1,832	Private, including miscellaneous Government stores, including miscellaneous	Mds. 73,242	Rs♥ 1,55,349	1,88,730	6,740	1,10,136	Rs. A. P. 2,065 6 0	
1,332	Grand total	73,242	1,55,549	1,88,730	6,740	1,10,136	2,065 6 0	
1,761	Grand total of same month last year	1,10,710	2,60,074	2,95,880	10,567	2,03,688	3,670 9 6	
	Unrecovered balance on the Amount of tollage for the mo	onth	nonth .	Tota	: ::: -	Rs. A. P.  246 5 3 2,065 6 9 2,311 11 3 2,018 14 9 292 12 6		

REMARKS.

The Executive Engineer has been requested to report the cause of the decrease of the traffic in these canals, as compared with that of same month last year. It is probably owing to the silting of the bed of the canal in the mile above the Kaleenuggar lock and partly to the more settled state of the weather this year compared to that of November 1878.

### SONE CIRCLE.

Arrah Canal.

LENGTH OF CANAL OPEN-65 MILES.

### LOCAL TRAFFIC.

3	Rice	-	890	2,225	1,393	49	936	10 1 6	
23 16	Wheat		8,316 5,425	27,027 24,412	11,176 7,143	399 255	11,150 8,282	122 6 6 78 4 9	******
32	Other articles of food		6,626 3,003	16,565	10,129 4,135	361 147	11,978 7,510	113 7 0 40 9 9	
10	Stones		156	624	356	12	264	2 0 9	
1	Mustard		400	1,600	78 663	2 23	72 460	0 15 3 5 4 6	****
29	Passengers (43 in number)				3,052	109	3,069	37 7 3	
35	Empty	***	295	1,475	4,078 375	145 13	2,911	17 10 0 5 13 9	*****
3	Cotton		324	6,480	653	23	694	5 3 0	*****
3	Piece-goods Subba-string		200 25	20,000 50	540 51	19 1	1,520 32	11 9 6 0 5 0	
161	Total		25,710	1,01,638	43,822	1,558	49,411	451 2 6	0 1
94	Total of same month last year		13,700	1,16,714	21,913	779	45,594	439 5 3	0 0
	MISCELLANEOUS.								
	32 Rafts of bamboos and bullahs (68,26 number).	in						37 9 0	
	Total							37 9 0	
5	Total of same month last year			20	19,650	*****		12 10 9	******
1 16 4 7 1	Cement Stores Iron Empty Morter-mill engine		3,640 600 	55 546 3,000 5,000	106 4,640 947 1,017 688	3 165 33 36 24	2,954 1,856 1,866 1,392	2 3 0 16 6 6 19 11 0 10 2 9 14 12 3	
29	Total		4,651	8,601	7,398	261	8,134	63 3 6	0 1
77	Total of same month last year		71,195	16,541	79,526	2,838	1,59,822	544 13 9	
"	MISCELLANEOUS.								
	Nu			1111111					- Maleston
	Nu	-						55 2 0	
	Total								
1	Total  Total of same month last year  Private, including miscellaneous		A 25,710	BSTRACT.	1,000	1,558	49,411	55 2 0	
1 61 29	Total  Total of same month last year	ous	Δ	BSTRACT.  1,01,638 8,601	1,000	*****		55 2 0	
1	Total  Total of same month last year  Private, including miscellaneous Government stores, including miscellane		A 25,710 4,651	BSTRACT.	1,000 48,822 7,398	1,558 261	49,411 8,134	55 2 0 488 11 6 63 3 6	

	MOTE.					Aks.	24.	X.
Unrecovered balance on the 1st of the month		***			***	541		
Amount of tollage for the month	***	***	***	***	444	551	15	0
				Total	***	1,093	9	8
Amount credited in the accounts for the month	***	***	***	***	464	878	3	9
Balance at end of the month		***	***	***	***	215	5	11

### Western Main Canal.

### LENGTH OF CANAL OPEN-22 MILES.

5		APPROX	SIMATE	TONNAGE O	F BOATS.	m		Rate o
boxts.	Nature of cargo.	Weight of cargo.	Value of cargo.	Mds.	Tons.	Ton mileage.	Tollage.	toll pe
		LOČAI	TRAFF	IC.				
		(1)	PRIVATE.	118/17		and the second second		
17 2 1 1 1 2 2 4	Wheat Rice Barley Spices Gairo Wooden boxes Passenger boat (number of passengers 12) Empty boats	900 400 800 200 130	Rs. 26,800 1,800 800 3,000 400 45	9,175 1,200 500 425 875 225 175 175	328 43 18 15 13 8 6	8,360 1,118 468 390 338 184 144 102	Rs. A. P. 124 8 9 17 4 0 7 3 0 6 1 9 5 6 3 2 2 3 2 5 9 0 11 3	A. P.
30	Total	-	32,845	12,250	-	11,104	-	
18	Total of same month last year	4,825	46,909	7,125	253	6,558	101 7 9	0 2.9
	MISCELLANEOUS.  Demurrage one day for 200 maunds bulla  Ditto ditto 100 ditto  Ditto ditto 25 maunds bamboo  1 Raft containing 15,300 bamboos	s					1 0 0 0 8 0 0 2 0 1 14 9	
	Total						3 8 9	,
	Total of same month last year			,	*****			
28 30	(2) STORES AN Rubble stone Empty boats	5,600	ALS FOR I	9,100 4,875	325 174	975 2,088	36 15 6 19 11 0	
58	Total	5,600	280	13,975	499	3,063	56 10 6	0 35
6	Total of same month last year	150	250	650	24	432	5 4 6	0 2.3
		A	BSTRACT.					
30 58	Private, including miscellaneous Government stores, including miscellaneous	8,630 5,600	32,845 280	12,250 13,975	437 499	11,104 5,063	169 3 9 56 10 6	
88	Grand total	14,230	33,125	26,225	936	14,167	225 14 3	
24	Grand total of same month last year	4,475	47,150	7,775	277	6,990	106 12 3	
	Unrecovered balance on the 1st of Amount of tollage for the month		Note. 				Rs. A. P. 36 7 6 225 14 3	

### Patna Canal.

Balance at the end of the month  $\hdots \dots \hdots \dots$ 

### LENGTH OF CANAL OPEN—861 MILES.

### LOCAL TRAFFIC.

### (1) PRIVATE.

### Patna Canal-continued.

70 .		Аррвоз	TMATE	TONNAGE	OF BOATS.	Ton		Rate of
Number boats.	Nature of cargo.	Weight of cargo.	Value of cargo.	Mds.	Tons.	Ton mileage.	Tollage.	toll per

### (2) STORES AND MATERIALS FOR IRRIGATION WORKS.

1 2 4	Lime Empty boats of kunkur Ditto of bricks	 	Mds. 60	Rs. 15	117 30 267 414	4 1 9	64 16 114	Rs. A. P. 0 13 0 0 1 0 1 0 0	A. P.
109	Total of same month last year		8,922	1,415	23,574	853	26,508	311 12 8	0 2.3
4	MISCELLANEOUS.								******
1 5	Boat ditto Total			******					******
13	Total of same month last year	•				,	******	******	

### ABSTRACT.

the beautiful		THE RESERVE OF THE PARTY OF THE	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO		The same of the sa	Control of the last of the las		CONTRACTOR CONTRACTOR
177	Private, including miscellaneous	13,988	1,07,753	32,553	1,157	60,792 194	609 7 9 1 14 0	.,
12	Government stores, including miscellaneous	60	15	414	19	134	1 14 0	
189	Grand total	14,048	1,07,767	32,967	1,171	60,986	611 5 9	
321	Grand total of same month last year	27,599	86,430	72,621	2,594	142,400	1,531 4 7	*****

### Note.

	e1				Rs. A. P.
Unrecovered balance on the 1st of the month		***		***	567 12 6
Amount of tollage for the month	***	***	***	***	611 5 9
			Total	***	1,179 2 3
Amount credited in the accounts for the month	•••	•••	·	***	542 12 6
Balance at the end of the month	***			***	636 5 9

### ABSTRACT.

	Tol		F THE YEAR 9-80.			F THE YEAR 8-79.	
CANALS.	Durin		To end of month.	To end of month.		To end of cor- responding month.	REMARES.
ORISSA CIRCLE.	R	8. A. P.	Rs. A.	P.	Rs. A. P	Rs. A. P.	
High Level, Range I Faldunda High Level, Range II	1,02	2 10 0	20,006 13 5,340 0 1,465 2 8,292 10 898 2	4	3,917 3 3 1,244 9 3 151 4 7 380 11 6 123 14 0	5,834 3 3 994 1 3 834 12 11	
Total Orissa Circle	5,98	3 3 4	36,002 12	5	5,817 10 7	24,947 13 6	
Midnapore	6,70		68,690 2 42,069 15	9	6,205 4 6 3,670 9 6		
Total South-Western Circle Sone Circle.	8,76	6 15 6	1,10,760 1	9	9,875 14 0	93,266 8 8	
Western Main		1 15 0 5 14 8 1 5 9	7,711 5 852 1 10,341 2	9	1,051 15 9 106 12 3 1,531 4 7	570 4 6	
Total Sone Circle	1,38	3 0	18,904 9	5	2,690 0 7	17,981 8 6	
GRAND TOTAL	16,139	5 10	1,65,667 7	7	18,383 9 2	1,36,195 14 8	

H. C. LEVINGE,

Joint-Secy. to the Government of Bengal, P. W. Dept., Irrigation Branch.

The 7th January 1880.

# GOVERNMENT OF BENGAL. PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH.

Ibbigation Ofbrations for 1879-80.

Areas leased for Irrigation up to end of November 1879.

		OTROLE.		Orissa			South- (	Western {			-	Sone	-				
		District.		Outtack	Total of the month	Total of the month of p	Midnapore	Howrah	Total of the month	Total of the month of p	Shahabad {	Patna and	Gys	Total of the month	Total of the mouth of p	Grand total	Grand total of the sponding month of
		CANAL.	Kendrapara Patamoondee	High Level Sec- tion I Taldundah Matchgong	he month	Total of the corresponding month of previous year	Midnapore	Panchkoorah	as month	Total of the corresponding month of previous year	Main Weste	2.5	Fastern main	he month	Total of the corresponding month of previous year	Grand total of the month	Grand total of the corre- sponding month of previ-
Stroot	T	Estimated full dis- charge in cubic feet per second.	c. ft. 1,269	675 1,800 650	:	1	875	300	-		\$ 4,342	1,660	3 1,466	1	-		
MI GREAT GO ATGGER	THE CANAL	Average discharge in cubic feet per second through- anout the month.	c. ft. 491'96	\$48.58 Not stated		1	378	76	-	j	482	\$35	460	1	-		
21 024	L.	Estimated dis- obarge utilized.	c. ft.	1111	:	-	1	1	1		432	332	200			-	
	Five	Leased in Novem- ber 1879,	Acr. 1,770 227	118	2,174	6,039	96	1	06	72	:	:	:	1	1	2,264	
	Five-year loases.	Leased up to end of November 1879,	Aer. 1,990	854	4,418	87,831	86,170	4,207	40,877	54,293	:	:	:	1	,	44,795	
	ases.	Total, inclusive of unexpired leases of previous years.	Acr. 40,657 10,770	13,772 9,834 25,079	99,512		84,818	10,163	94,976			1	1			194,488	
Кни	Thr	Leased in Novem- ber 1879.	Acr	1111	:	:	:	;	:	:	:		::	. :	:	:	
KHURREEF.	Three-year leases	Leased up to end of November 1879.	Acr.			1 :	13		12		848	6,212	2,140	9,198	6,999	9,210	
	ases.	Total, inclusive of unexpired leases of previous years.	Aer.				13	:	12		1.915	6,986	2,519	11,420	1	11,432	
	Annual leases.	Leased in Novem- ber 1879.	Acr	1111	1:	;	:	88	88	:	1 .08		.31	92	1,409 7	181	
	sa.	Leased up to end of November 1879.	Acr. 1	Y::::	:	:	216	695	116	894	2,677	30,779	5,864	41,685	70,591	42,596	
	Three	Leased in Novem- ber 1879.	Acr. A	1111	:	:	:	-	:	:		ng, arribas	1:	:	-	:	1
R.	Three-year leases	Total, inclusive of,	Acr. Acr.					-					-		190		
RUBBEE.		of previous years.				1		:	1		-			1	1		
	Annual leases	Der 1879.	Acr. Ac		6,	1,1		-			1		-		1,9	ai	
	1 4	November 1879. Leased in Novem-	er. Acr 984	592 217 307	2,189	1,741		124	124		:   :	: :			1,942 2	2,313	
	SUGARCANE	ber 1879. Leased up to end of November 1879.	r. Acr. 25			-		-	i  -		010		1,308	318 17,791	998 2,146	313 17,854	
	tú.	Ehurreef.	r. Acr. 25 40,057 10,770	18 13,772 9,834 26 25,079	63 99,512	286 87,831	85,041		95,899	55,117	2,677			91 53,105	12,723	54 248,516	
(	GRAN	Виррее.	Ac		512 2,189	831 1,741		10,858 15		411	577		383	501	123 2,102	516 2,313	
	GRAND TOTAL	Викатевне.	r. Acr. 84 25	217 18 217 20	89 63	41 286	:	124	124	:	1,284	9,328	1,308	17,791	92 2,140	13 17,854	
	i	Total.	Aer. 41,066 10,359	14,382 16,051 25,406	3 101,764	89,858	85,041	10,982	96,023	55,117			7,691	70,896	76,965	268,683	
guibn	correspon	Grand total of the c period of last year.	Acr. 32,972 10,282	19,889 9,784 23,840 91	89,858	1	49,028	6,089	55,117		17,534	52,491	6,940	76,965		221,940	
	M	Inches during the	Inches.	0.51		1	0.00	0.00		1	00.0 \$	0.00	90.00				
	RAINPALL	Inches during 1879-80.	Ins.	28.08	:	:	34.75	35.12	:	1	21.00		41.72	1	i	:	
	4	Average of ten previous years of the same period.	Inches.	1			(10 years ) 51.52	(9 years.) 51.57			38:88	38.02	39:33			1	

The 12th January 1880.

D. B. HORN,
Asst. Secy. to the Govt. of Bengal,
P. W. Dept., Irrigation Branch.

# PUBLIC WORKS DEPARTMENT, -BENGAL.

Statement showing heights over mean sea-level and dow-water on Rivers Ganges, Bhagiruthee, and Brahmapootra during the month of December 1879. General Establishment.-No. 6.-The 12th January 1880.

BRAHMAPOOTEA.	Gowhatty.			Height over mean sea-level.	150-36 150-46 150-46 150-46 150-46 150-46 149-76 14	149.16
BRAHM	Gow			Height over zero of gauge.	200 11.80 11	.40 Below
	ghur.	0.2	bore	Height over mean sea-level.	14-46 14-46	11.83
RIVER BHAGIRUTHER.	Kishnaghur.		Угот Веград-	Height over zero of gauge.	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.04
IVER BHA	npore.				88.94 88.94 88.94 88.94 88.94 88.94 88.94 81.94	86.15
R	Berhampore.		* :	Height Height over zero over mean of gauge, sea-level.	66 66 66 66 66 66 66 66 66 66 66 66 66	22
	ndo.	120.	From Rampore		14-99 14-98 14-98 14-98 14-98 14-98 18-98	12.36
	Goalundo.	.162	From Benares	Height Height over zero over mean of gauge, sea-level.	6-00 6-00	54.60
	Bauleah.	.06	From Saheb-	Height over mean sea-level.	48.87 48.87 48.87 48.87 48.87 48.87 47.73 47	16.31
	Rampore	*1.15	From Benares	Height over zero of gauge.	6.87 6.62 6.62 6.62 6.62 6.62 6.62 6.73 6.73 6.73 6.73 6.73 6.73 6.73 6.73	4.51
	nuge.	76	From Monghyr	Height over mean sea-level.	73.55 73.55	71.85
	Sahebgunge.	.185	From Benares	Height over zero of gauge.	6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	20.00
	hyr.	.011	Prom Dinapove.	Height over mean sea-level.	102-97 102-68 102-14 102-14 102-14 102-14 102-14 101-73 10	86.82
GANGES.	Monghyr.	.782	From Benares	Height over zero of gauge.	1.12 683 687 687 687 1.17 1.17 1.18 1.18 1.18 1.18 1.18 1.	5.00
RIVER	ore.	*48	Тгот В <i>иха</i> г	Height over mean sea-level.	145°30 145°30 145°30 144°30 144°30 144°30 144°30 144°30 144°30 144°30 144°30 144°30 144°30 145°30 14	143.35
	Dinapore.	.771	From Benares	Height over zero of gauge.	11.30 11.20 11.20 11.20 10.30 10.50 10.50 10.50 10.50 10.60	9.30
	ur.			Height over mean sea-level.	174:32 174:15 174:15 174:15 175:39 175:39 175:39 175:49 175:49 175:39 175:39 175:49 175:49 175:49 175:49 175:49 175:49 175:49 175:49 175:49 175:49 175:49 175:49 175:49 175:49 175:49 175:49 175:49	172.40
	Buxar.	.06	From Benares	Height over zero of gauge.	4-4-92 4-7-3 7-7-3 7-3	3.08
	res.			Height over mean sea-level.	201-72 201-63 201-65 201-38 201-38 201-38 201-38 201-38 200-72 200-72 200-63 200-63 200-63 200-63 200-63 200-63 200-63 200-72 20	199-32
	Benares.			Height over zero of gauge.	######################################	94 9
	pore.		33	Height over mean sea-level.	213.47 213.50 21	210.97
	Mirzapore.			Height over zero of gauge.	77.08 77.08 77.08 6.08 6.08 6.08 6.08 6.08 6.08 6.08 6	475
	- /1	softM	Distance		1111111	1
			Date.		See	

Offg. Asst. Secy. to the Govt. of Bengal, P. W. Department.

### Reports of Fluctuation of Traffic on the East Indian Railway for five weeks ending 29th November 1879.

EAST INDIAN RAILWAY. TRAFFIC MANAGER'S OFFICE, JAMALPORE, THE 30TH DECEMBER 1879.

Remarks on Traffic of East Indian Railway for five weeks ending 29th November 1879.

THE approximate figures for the period are as follows :-

				hing.	G	oods.	Total.
			No.	Æs.	Mds.	Rs.	Rs.
1879 1878	 	***	684.891 685,790	10,13,569 10,52,971	54,42,133 64,76,217	25,08,933 25,33,879	35,22,502 35,86,850
			Management and columns of	-		-	december recommende
Increase	***	:::	899	39,402	10,34,084	24,946	64,348

shewing a decrease in the total traffic of 1.79 per cent. The decrease in coaching has arisen from the traffic in remount specials having been less this year

In goods traffic the decrease is not large, and is solely due to the falling off in the grain despatches, it being remembered that last year large quantities of millets, &c., were being conveyed to the Western Presidency, where scarcity then existed.

	demand for cheap food a	grain. 1ations in staples	s as compare	ed with the	same peri	od o	f last y	ear are s	s follows:	-		
				Inc	reases.							
	Coal, up Hides.			goods.	ls.				Saltpe Sugar			
36	11100		, ,,,,,,,,		creases.			1	- ug			
	Coal, down.	1	Gunny		creuses.			1	Salt.			
	Cotton.		Opiun						Seeds.			
				Inc	reases.			-			_ < /	400
	0.1								ids.		Rs.	
	Coal, upwards		***	•••			•••	-	99,160		,38,240	
	The continued incre	ease in this traffi	c is very sat	isfactory, f	orming as		oes a reg		rce of reve 27,399	enue.	17,883	
	The demand for	export continue	d firm dur	ing Nover	nber, but	ธบ	pplies	are not	, it is	said, forth	ncoming	to any
	large extent. Piece-goods				, i		1	ra.	63,807	Rs.	78,740	
	The principal portion a large way to meet a that the flourishing stat Fid Jubbulpore the Railway mater This is chiefly owin Saltpetre In the course of the end. The exports are p Sugar	n active demand e of the autumn ere has also been itals g to the materia me month there we brincipally to Am	in the distriction in the distriction in the distriction and increase and sent up from as an active derica.	ricts of Pat ed to this in in the pice or the Quet edemand in	na and Tir nprovemen e-goods fr ta Railwa the Calcu	rhood ot. com : y no	Bombay Mow under M market, Mo	to the Mas. construids. and price.	North-Wes 30,253 ction. 35,287 es rose, bu	t. Rs. 1 Rs. t fell aga	It is p ,10,565 14,264 in towar 10,824	robable
	There has been a br						carried	, over 4,	ooo tons,	chieffy i	rom stat	nons in
					creases.							
	Coal, down						M	ds. 1.	12.834	Rs	16,338	
	The large quantity November. The holiday Cotton Prices as compared	s covered one of	f the weeks	under revi	iew when t	there	idays do	oubtless mall desp ds. 17	met the doubtehes.	emand or Rs.	stocks 36,501	
	there was last year. Gunny Last year gunny wa This year, although Opium	there are ample	stocks, the	demand is	despatchi moderate,	ther	e being	gely to to so heavy Mds.			rain traff	fic.
	. Despatches from Zu	maneah and Pat	tna commen	ced later d	uring the p	prese			3,498	D.	24,006	
	Salt During the week en	ding 1st Novem	ber the salt	golahs bei	ng closed o	n ac			d holidays	Rs., there we	re no des	patches
	of salt.  Seeds The demand for line seeds the enquiry is n good.	seed for export to ominal, and ow	o America is	s very unc	ertain, wh	ile s	carcely	any has	been sen over, the	Rs. it to Eng seed crop	52,426 cland. I os were f	n other
	The grain traffic res	sults are as follow	ws :						1,78			
		Rice,	decrease				Mds. 2,06,47		Rs.	ie.		
		Other grains,	))			***	6,74,25	6	63,10 1,46,66	37		
		Pulses,	,,	•••	•••	•••	1,39,18	-	44,26	-		
				Wheat	Total increase	:::	10,19,92 57,60		2,54,03 88,47			
		Net	10	•••			9,62,31	3	1,65,55	55		
	The Calcutta and o	ther markets for			es are fall		-	•			is season	'в сгор

The train mileage for the period has been-

					Coaching.	Goods.	Total.
1879 1878		***	***	•••	241,140	430,168	671,308
10/0	***		***	***	240,486	467,423	707,909
Increases	***	***	***	***	654	07 077	90 001
Decreases	***	944	***	***	****	37,255	86,601

Earnings per train mile-5 13 4 5 6 9 Increases Decreases 0 6 7 0 2 10

This may be considered as satisfactory in the face of the decrease in earnings, and shows that the subject has close attention. Shunting mileage—Increase ...

... Hours 1,217

The shunting increased at Cawnpore, Allyghur, and Ghazeeabad.

Jubbulpore line traffic : -

- Colonia de la			Coacl		Goo	Goods.			
				No.	Rs.	Mds.	Rs.	Rs.	
1879 1878	***			32,127 32,514	1,42,500 1,33,149	6,57,783 12,57,188	1,95,888 3,27,754	3,38,388 4,60,903	
Increases Decreases				387	9,351	5,99,405	1,31,866	1,22,515	

Last year the bulk of the grain traffic (for Bombay) was passing over the Jubbulpore line, and the decrease in weight under this head is maunds 3,21,000.

The train mileage has been-

			Coaching.	Goods.	Total.
1879 1878	 	 	 28,502 28,809	39,657 86,455	68,159 115,264
Increase Decrease	 	 	 307	46,798	47,105

Total earnings per train mile-Increase, annas 15-5.

W. St.L. CARTER, Traffic Manager.

### MAIN LINE.

Statement showing the Totals and Increases and Decreases of Staples during five weeks ending 29th November 1879.

	WEIG	HT.	Амот	UNT.	-	1879	9.	
STAPLES.						-	-	
	1878.	1879.	1878.	1879.	Incre	ease.	Decre	tase.
	Mds.	Mds.	Rs.	Rs.	Mds.	Rs.	Mds	Rs
Beer, Commissariat	2,391	452	1,972	150			1,939	1.8
,, not Commissariat	7,039	6,498	9,481	7,831			541	1,6
Setel-nuts	9,448 4,615	13,310 4,111	10,778 7,205	16,464 6,029	3,862	5,626	******	******
Brassware	11,774	12,919	8,970	9,527	1,145	557	504	1,1
Bricks	3,431	2,580	2,177	1,231			851	
loal, up	2,85,351	4,84,511	1,25,014	2,63,254	1,99,160	1,38,240	with "	Service
" down	15,31,192 6,950	14,18.358 7,423	2,09,255 9,231	1,92,867 10,536	473	1,305	1,12,834	16,3
lopper	71,839	53,995	1,06,723	70,232	9/0	1,900	17,844	36.5
Dotton	14,322	12,421	15,866	12,881			1,901	2,0
Dyewood	6,542	7,887	5,575	7,417	1,845	1,842	******	******
Empty coopahs	6,420 10,190	5,320 7,277	4,420 323	3,963 271			1.100	-
Fruits	23,500	20,856	22,613	22,734		121	2,915 2,644	
Glassware	2,620	4,841	3,599	4,470	1,721	871	2,092	*****
Thee and oil	37,822	29,863	30,343	29,899			7,959	
3. B. T. packages	6,808 26,908	6,531 32,950	16,882 31,773	18,658 $70,232$	6,042	90 480	277	3,1
Ordnance stores	22,255	11,293	35,853	13,150	0,042	38,459	10,962	22.
" (Barley	14,222	23,195	4,291	4,976	8,973	685	. 10,002	2003
Oats	2,678	2,720	1,265	1,303	42	38	******	
FRAINS, EDIBLE, & Rice	6,94,380	4,87,902	1,43,619	80,514			2,06,478	63,1
PULSES. Wheat	2,58,793 8,37,471	3,16,400 1,63,215	1,05,873 1,56,838	1,94,351	57,607	88,478	6,74,258	T 40.0
Other grains Pulses of all kinds	3,33,007	1,93,821	1,15,953	71,692	******		1,39,186	1,46,6
Gunny	1,13,162	59,982	. 92,771	37,679	******		53,180	55,0
Hides and horns	79,797	1,07,196	58,533	76,416	27,399	17,883		*****
Indigo	35,970 1,10,327	1,01,636	85,912 84,678	47,227 77,711			16,712 8,691	38,6
Iron	37,557	47,816	7,787	12,375	10,259	4,588	9,691	6,9
SERVICE	24,155	29,929	13,024	20,288	5,774	7,264		******
Minerals	35,096	30,748	8,431	6,823			4,348	1,6
BIOWHII HOWED	6,248	25,035	1,318	5,459	18,787	4,241	230	*****
Oil-cake	8,781 63,925	8,551 15,922	2,757 67,453	1,947 18,678	* ******		48,003	48,7
Opium s s	5,868	5,896	7,645	7,218	28		40,000	4
Paper	1,55,544	2,19,351	1,96,188	2,74,628	63,807	78,440		******
Railway materials, construction account	10,251	15,718	835	916	5,467	81		
" " foreign	1,80,340	1,55,126	1,36,650 8,374	2,47,134 9,057	24,786 438	1,10,484	K	*****
Roots	5,43,017	4.69,519	1.48,265	1.24,259	405	030	73,498	24,0
SIGNATURE OF THE PROPERTY OF T	50,183	85,470	22,221	36,485	85,287	14,264		*****
Seeds	5,29,794	3,24,879	1,57,785	1,05,359			2,05,415	52,4
8ilk	1,811	1,782	2,298	2,334 5,090		36	1 201	1.0
Spelter	5,232 9,768	3,981 18,570	9,193	11,237	8,802	2,044	1,301	1,9
Spices	67,663	29,401	13,070	7,423	******		38,262	5,6
Sugar	92,528	1,12,895	31,104	41,928	20,367	10,824	******	
Pea	7,147	6,720	9,278	7,942			427	1,3
Fimber	23,612 36,054	15,250	10,071 20,784	5,419 11,806			8,353 5,628	4,6 8,9
Pobacco	7,450	30,426 8,802	4,794	6,676	1,352	1,882	0,028	die
Turmeric	7,002	6,056	14,542	11,906	Acres .		946	2,6
Miscellaneous	1,46,442	1,61,215	1,70,492	1,85,160	14,773	14,668	*****	*****
	65,91,591	54,62,075	25,79,050	25,26,313	5,17,696	5,43,604	16,47,212	5,96,3
Total	00,01,001	54/02/010	20,10,000	aujaujutu	olitions.	0) 10,000	-olatiege.	ntenta

Report on the Fluctuations in Traffic on the Northern Bengal State Railway during the month of December 1879.

### GENERAL REMARKS.

The heaviest weight yet lifted in any one staple in any one mouth has been accomplished during the month under review, and that too in the bulky article of jute. The gross weight hauled during the month stands at 1,34,956 maunds. The nearest approach to this weight was in May 1878, when 1,28,619 maunds were carried under the head of food-grain.

approach to this	weight was in	may zoro	,	ojože zami						
				Incr	éases.					. 8
	Ale ·								1,805	
The earlier to meet Christma	despatch by the as requirements	Commissa, are the r	riat of the	e hot weath igned for th	er stock fo is large in	or the Darj crease over	eeling depô last year's	t, and heat traffic in the	vy private c nis staple.	onsignmen
*	Food-grain							Mds. 2	5,855	
The decline weight lifted dur which, although reasonably have	a satisfactory	stands at	31,542 ma on, is a f	unds (agair alling off a	st 5,687	maunds	during the	correspon	ding mouth	of 1878
	Jute							Mds. 94	,844	
In the face	of the season	being s	far adva	nced, the tr 34,956 maun	affic in thi	s staple go	es on stead aunds in D	ily increasi ecember las	ng. The g	ross weigh
100	Piece-goods							Mds. I	1,517	
The whole previously carried	of the piece-gl by boat for th	goods trafi e Rungpor	fic of the	district m	ay now b	e fairly sai y by rail.	id to pass o	ver the line	. The larg	e quantitie
40	Railway mate	rial		***				Mds.	4,966	Mary Train
Fourteen th	ousand maund up the balance.	s of locom	otive coal	are included	l in this y	weight, and	l material f	or the Said	pore worksh	iops and th
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Salt					,.,		Mds. 1	5,664	
The traffic	in this article 1 10,574 maund						our station	s, steadily	on the incr	ense. Las
7.4	Sugar	:						Mds.	559	
The remarks	made in my la	st report a	pply here.						process of	
	Tea							Mds.	2,391	
The more fa	vorable rate of	exchang	ruling	for some t	ime past	has had a	in unfavor	able effect	upon the p	rices in the
	Tobacco								0,835	
The traffic gradually on the during the curre	decline : in Se	ptember of	over <b>22,00</b>	ng such a O maunds w	favorable ere lifted	comparison ; in Octob	n with the ber and Nov	correspond vember ove	ing month r 17,000 m	last year, i
	All other goo	ds				,		Mds. 2	,429	
The increase	under this hea	d is in abo	ut the san	ne ratio as la	ast month	; a little o	ver double	the we igh	carried fo	r the same
to de				Dec	reases.			*.	No.	
	Ginger .			200	704000.			Mde	C51	
Holders of t	his article on t	ho mot ar	 o domondi	na melaba ti	nt alterat	hou manalu	do brainasa	Mds.	651	5.54
Holders of t	_	ne spot an	e demand	ing prices ti	at artoget	ner preciu	de business.	Control of the contro	000	
TDI	Gunny							Mds. 6	,886	
The causes of	the falling off	under thi	s nead are	e explained i	n my last	month's re	eport.			
						- "				
			. 4				A 180			
Statement shewin	g Increases an	d Decreas	es in maun	idage of Sta	tples carri	ied over the	line durin	g the mont.	h of Decen	aber 1879.
	Mark Town	.					1	C. Carlotte	100	
's S	TAPLES.		187	78.	18	79.	Total for	Total for	Increase	Decrease
week of			Up.	Down.	Up.	Down.	1878.	1879.	in 1879.	in 1879.
ood-grain inger unny bags ute iece-goods tailway material ait ngar ea			18 770 144 580 27,892 294 274 	8 4,917 962 12,357 40,112 289 941 16 37 11,576 1,703 4,836	1,830 2,711 2,122 92 11,879 - 29,955 15,924 868	1 28,831 311 3,493 1,34,864 507 3,844 50 2 13,967 12,543 7,145	26 5,687 962 12,501 40,112 809 28,833 310 311 11,576 1,708	1,831 31,542 311 5,615 1,34,956 12,386 33,709 15,974 870 13,947 12,543 38,709	94,844 11,517 4,966 15,664 559 2,391 10,835 21,429	651 6,886

Total

42,511

77.754

1,82,328

2,05,558 1,20,265 3,02,593

### Calcutta and South-Eastern State Railway.

Statement showing Increases and Decreases in maundage of Staples carried over the line during the month of December 1879, as compared with the corresponding period of December 1878.

A STATE OF THE STATE OF				187	19:	18	79.	1878.	1879.				
STAPLES.		Up. Dow		Ůρ.	Down.	Total.	Total.	Increase.	Decrease				
in the early						Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Firewood Hay Wooloo Straw Paddy Rice Building mate Machinery	erials					49,660 5,100 1,320 1,230 1,646 1,969	1,975 951 1,893	39,645 9,820 1,120 1,630 1,965 2,049	200	40,660 5,100 1,320 1,230 1,646 1,969 1,975	39,845 9,820 1,190 1,630 1,965 2,049	4,720 400 319 80	9,815 130 1,975 800
lundries	***	100	•••	To	tal	 61,065	4,819	56,649	1,237	65,884	57,886	5,519	13,51

The decrease in firewood traffic is due to less import owing to wood-cutters being engaged otherwise than in cutting wood.

The increase in hay, straw, and paddy traffic is due to favorable market at selling stations.

The increase in rice is trifling.

The decrease in wooloo is trifling.

The decrease in building materials and machinery is due to less materials and machinery having been carried during the month under notice for the Canning Rice Mills.

Calcutta, the 13th January 1880.

R. G. Mookerjee, Manager.

### Nalhati State Railway.

Statement showing Increases and Decreases in maundage of Staples carried over the line during the month of December 1879, as compared with the corresponding period of December 1878.

STAPLES.	1	878.	18	79.	1878.	1879.	Mds.  150 4,596 10,420 307 3,275	Decrease.
SIATABO	Up.	Down.	Up.	Dowu.	Total.	Total.		
Grass and bell-metal ware	Mds.  147 2,953 558 430 125 2,343 836	Mds. 2,989 555 414	Mds, 207 7,549 10,885 106 432 1,843 525 4,332	Mds. 3,082  458 1,072	Mds.  147 2,953 3,547 430 125 2,343 836 555 2,129	Mds.  297 7,549 13,967 106 432 1,543 525 458 5,404	4,596 10,420 307	Mds 32: 500 31: 9:
Beer and wine Total	9,185	3,958	26,040	4,612	78 13,143	80,652	-	1,23

The increase in brass and bell-metal ware is due to greater import.

The increase in coal is due to greater import for purposes of brick-burning.

The increase in edible grains is due to greater import to favorable market in the neighbourhood of Azimgunge, owing to failure of early crops on account of early floods of the Pudma river and owing to destruction of crops by later flood, and also greater import to down stations.

The decrease in gunny is due to less import.

The increase in oil and ghee is due to larger import to favorable mark et.

The decrease in piece-goods is due to less import for want of demands.

The decrease in potatoes is due to less import for want of demands.

The decrease in silk is due to less export to unfavorable market,

The increase in sundries is due to greater import to a favorable market.

The decrease in wine and beer is trifling.

Calcutta, the 13th January 1880.

R. G. MOOKERJEE, Manager.

### Weekly Return of Traffic Receipts on Indian Railways.

### EAST INDIAN RAILWAY-MAIN LINE.

Approximate Return of Traffic for the last 11 days of December 1879 on 1,2831 miles open.

	! (	COACHING TRAI	FIC.	MERCHANDI	E AND MINERAL TRAFFIC.		TRAIN MILES BON		
	No. of passen- gers.	Ceaching	receipts.	Weight carried.	Receipts.	TOTAL TRAPPIC RECEIPTS.	Coach- ing.	Merchan- dise.	Total
Total traffic for the period Or per mile of railway	202,280	Rs. A. P. 3,20,107 15 6 249 6 5	£ s. d. 29,343 4 8 22 17 3	*Mds. 8. 21,29,816 10	Rs. A. P. & s. d 10,41,796 12 0 95,498 0 811 11 0 74 8	8 13,61,904 11 6		151,307	223,4074
For previous 24, weeks of half-	3,311,253	44,41,745 4 0	407,159 19 7	2,64,35,407 10	1,15,16,683 15 0 1,055,696 0	71,59,58,429 3 0	1,165,646%	2,023,6425	3,189,289
Total for 26? weeks Comparison.	3,513,5331	47.61,853 .8 6	436,503 4 3	2,85,65,223 20	1,25,58,480 11 0 1,151,194 1	3 1,73,20,333 14 6	1,237,7461	2,174,950	3,412,6964
Total for corresponding period of previous year		3,11,598 12 4	28,562 15 3 22 6 5	24,44,514 10	8,42,040 8 6 77,187 1 657 15 7 60 6			150,015	217,3712
Total to corresponding date of previous year	8,408,204	- 4		2,87,59,978 0	1,12,81,998 1 4 1,034,183 3		100000000000000000000000000000000000000	The same of the same of	

### EAST INDIAN RAILWAY-JUBBULPORE LINE

Approximate return of Traffic for the last 11 days of December 1879 on 2234 miles open.

Total traffic for the period Or per mile of railway For previous 245 weeks of half- year	10,768 	Rs. A. 36,331 15 162 6 4,57,231 6	6	£ s. d. 3,330 8 7 14 17 8 41,912 17 7	Mds. s. s. s,22,948 30	Rs. A. 1,13,562 5 6 507 8 7,35,247 13	8	10,409 46	10 6	1,49,	Ls. A. P. 894 4 6 660 14 8	7,6724	Part of	25,230 297,4863
Total for 267 weeks	148,083}	4,93,563 5	9	45,243 6 2	28,80,209 30	8,48,810 2	9	77,807	12 0	13,42,	378 28 06	133,628	189,007}	322,7251
Comparison.  Total for corresponding period of									- 3	7. 1		72		
Per mile of radway correspond-	11,894}	45,618 13	6	4,181 14 7	6.52,323 30	1,82,687 0	6	16,743	6 2	2,28,	305 14 0	8,5244	40,0761	48,600\$
ing period of previous year Total to engresponding date of		203 14	2	18 13 9		816 7	8	74	16.14	1,	126 5 10	(Same		*****
previous year	153,3561	5,05,889 1	8	46,373 3 4	41,20,568 0	11,32,125 6	11	103,778	3 3	16,38,	014 8 2	134,148}	286,763}	420,9111

### EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 27th December 1879 on 1715 miles open.

		COACHING TRAFFIC. MERCHANDISE AND MINERAL TRAFFIC						Services .	
	Number of passengers.	Coaching re	eccipts.	Weight carried.	-40	Recei	pts.	recesp	
Total traffic for the week	40,857 254 891,610	Rs. A. P. 31,250 0 0 181 15 3 6,08,152 6 10	£ s. d. 2,864 11 8 16 13 7 55,744 11 2	Mds. s. 2,22,107 0 1,293 8 58,80,197 33	Rs. 45,408 264 16,03,189	A. P. 0 0 6 1 0 7	£ s. d. 4,162 8 0 24 4 8 146,961 14 10	202.706	
Total for 26 weeks	931,967	6,39,402 6 10	58,609 2 10	61,02,304 33	16,48,597	0 7	151,124 2 10	209,738	
COMPARISON.  Total for corresponding week of previous year Per mile of railway cor. week of previous year Total to corresponding date of previous year	43,165½ 272 1,013,188	27,769 13 0 174 14 10 6,69,428 5 2	2,545 11 4 16 0 9 61,914 5 8	1,32,275 4 833 0 50,30,848 31	29,161 183 15,17,650		2,673 2 7 16 16 9 139,108 15 7	5,218 1: 32 1' 201,023	



## SUPPLEMENT TO

# The Calcutta Gazette.

WEDNESDAY, JANUARY 21, 1880.

### OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the Supplement separately on payment of Six Kupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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### Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

Saturday, the 10th January 1880.

### Present:

HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL, presiding,

The Hon'ble C. T. BUCKLAND, The Hon'ble H. L. DAMPIER,

The Hon'ble A. Mackenzie,
'The Hon'ble J. O'Kinealy,
'The Hon'ble C. D. FIELD, L.L.D.,

The Hon'ble Syud Moulvi Ameer Hossein,

The Hon'ble Baboo Mohini Mohun Roy,

The Hon'ble A. B. Inglis, The Hon'ble Baboo Kristodas Pal, Rai Bahadoor, c.i.e.,

The Hon'ble J. B. KNIGHT, C.I.E.,

The Hon'ble Baboo Peary Mohun Mookerjee.

### ROAD CESS AND PROVINCIAL PUBLIC WORKS CESS.

THE HON'BLE MR. DAMPIER moved that the Bill to amend and consolidate the law relating to local rating for the construction charges and maintenance of roads and other means of communication and of provincial public works be read in Council. The Bill, he said, had been several days in the hands of hon'ble members, and the alterations which had been made in the existing law were printed in italics. As he said in asking leave to introduce the Bill, the Public Works Cess Act and the Road Cess Act were repealed, and were consolidated into this one new Bill.

The first change which he need notice was in the definition of the term "cultivating ryot;" and he must here explain that although the Bill was materially in the shape in which it had been put by the Board of Revenue, he was not personally answerable for all its provisions. In Act X of 1871, then, the definition of cultivating ryot was "a person cultivating land and paying rent therefor not exceeding Rs. 100 per annum." The cultivating ryot was the subject of a different mode of valuation from the tenure-holder. In the present Bill the definition had been changed to "a person cultivating himself or through hired labourers or others lands held in his name for which he receives no rent in money or in kind," without reference to the amount of his jumma. Objection had been made to Mr. Dampier already that such a definition would throw a good deal of trouble upon zemindars in submitting their returns. This was a matter for consideration in Select Committee.

In the definition of "immoveable property" it would be seen that houses, shops, and other buildings, were excluded. The Bill omitted the provision of the existing Act which imposed a cess upon houses. Hon'ble members were probably aware that the levy of the cess upon houses was attended with intolerable irritation and vexation. As had been frequently said, three-fourths of the discontent against the Act was caused by the levy of an eighth of its proceeds in the shape of house cess.

The next material alteration was in section 9. As the Act stood now it had indeed been interpreted to mean that when the first five years of the valuation had expired, the Government might, instead of ordering the general re-valuation of a district, direct that selected estates only be re-valued; and this interpretation had been acted upon, but the Act at any rate did not say this in so many words. As section 9 stood in the Bill, there could be no doubt whatever that it gave power to the Government to order such a re-valuation of selected estates only.

In section 10 of the Bill there was a little word, "two," in italics which meant a good deal. For this he was not responsible. Three months was allowed to zemindars to make returns under the existing law: here it was proposed to reduce the time to two months, a change which the Select Committee would have to consider.

Then he came to section 12, which, as he mentioned in his first speech, referred to the power of summarily valuing tenures of which the revenue or rent was under Rs. 100. The existing Act gave such a power of summary valuation as regards rent-paying estates, but none as regards lakhiraj estates. There was a large number of these which were very petty, and it was desirable to have the means of valuing them summarily also. Section 12 therefore provided that a lakhiraj estate which was borne on the register as such, and the rent received from which was less than Rs. 100, should be liable to summary valuation.

Section 22 was a section which was commonly introduced for the purpose of such enquiries as would be made under this Bill: it provided that the Collector might summon witnesses and enforce their attendance, and make them give evidence under the powers contained for the purpose in the Civil Procedure Code.

The proposed addition to section 26 provided for the division of the cess and the separate liability of the parties, if the parent estate was divided by butwarra into two or more estates during the currency of a valuation.

Section 27 was new. In the existing Act there was not one word about amending or modifying the valuation until the period of five years had expired, and it might be argued that no authority had legal power to change a valuation and the amount of tax calculated on it during such period. But a strict

adherence to the valuations would in some cases have caused much hardship, as for instance in cases of diluvion. The Board of Revenue had therefore, per fas et nefas, given relief in such cases. This section provided that although no valuation would be increased during the five years' currency, yet, for good reasons shown, the Board might reduce a valuation within that term.

Then he might mention another point which had not been introduced into the Bill, but which had since occurred to him. After the five years' currency was over, it now rested with the Government to order a re-valuation: no one would have a right to claim a new valuation unless the Government chose to order it. He thought it would be right to introduce a clause to the effect that whenever the currency of a valuation was over, a proprietor might, as of right, claim a re-valuation. He proposed to lay such a clause before the Select Committee for its consideration.

Section 32 was merely to provide for a separation of liability for cess where a separate account was opened under Act XI of 1859: this was not pro-

vided for in the existing Act.

As the law stood (section 36), it was necessary to serve a notice on each payer whenever the rate of road cess for any year had been determined by the District Committee, but frequently, if not generally, it so happened that the rate of the preceding year was continued, and then there was no change in the amount of tax payable by each person. In such cases the amount of tax payable by each was well known and no individual notice was required, and so the Bill provided: that would be of course a great saving of labour and expense.

The new portion of section 37 attempted to give some relief to zemindars as regards the difficulty of their recovering the cess from the holders of rent-free lands in their estates. It provided that if the cess for such land was not paid to the holder of the estate or tenure by due date, he should be entitled to recover from the holder of such land an additional sum equal to double the amount of the cess with all costs of suit; and in that way many items which in themselves were too trifling to be worth the trouble of recovering by compulsory process, might reach an amount which would be worth recovering.

Sections 39 to 51 contained the principal change in the Act. In referring to them it was unnecessary for Mr. Dampier to go into details, but the object was to force into light the holders of rent-free lands which had hitherto escaped taxation. The obligation was now imposed on the zemindar to include such lands in his returns, but the zemindars had not fulfilled that obligation, because it practically entailed upon them the payment of the tax for the rent-free holders which they were not subsequently able to recover. The principle of these sections was to have a register of claims to hold lands rent-free. The holders of rent-free tenures were required to come forward and register their claims to hold land. Registration would be of the fact of the claim being made; it would be no evidence against anybody. Whoever said he held certain land without payment of rent would be registered, and thereupon would become liable to pay the cess, which would be collected by the zemindar or directly by the agency of a tehsildar: and there was a penalty imposed for not coming forward to register. It was hoped that this penalty, and also the natural unwillingness of every holder of such lands to leave his claim unregistered, would bring him forward to accept his liability to taxation under this Act, which it was now in many cases impossible to enforce.

Section 52 was new. Under the present law District Committees had entire control over the cost of establishment; but they had nothing to do with the collection of the cess. As hon'ble members were aware, the revenue officers of Government had to make the collections and hand them over to the District Committees. But if the Collector wanted an additional peadah for collecting, he was obliged to ask the permission of the District Committee. The Committee had no knowledge of the working of the collections, and it was therefore provided that the establishment for making valuations and collections, and for all other purposes connected therewith, should be appointed by the Collector, and should be paid by the District Committee upon bills presented by the Collector.

Section 81 provided that gratuities and pensions might be given out of the District Road Fund. This was new, and in addition to what was provided in that section before.

In section 87 the objects for which the District Road Fund should be expended were set out categorically.

Then he came to section 107. As the existing Act stood, the District Fund had to contribute to the establishment entertained in the "office of the Collector:" in the present Bill it stood "in the offices of the Collector, the Accountant-General, and the Board of Revenue," with regard to which alteration Mr. Dampier was prepared for the discussion which this Council had many a good time held on that particular subject.

Hon'ble members were aware that under the existing law the two cesses, the road cess and the provincial public works cess, were collected and the valuations made by the same establishment. The former cess was collected for the District Committees; the latter for the provincial revenues. There was no provision in the existing Acts as to how the cost of such processes should be distributed between the Government and the District Committees. Section 108 of the Bill supplied this omission, and provided that in consideration of the public works cess being collected by the same establishments, which were in the first instance paid for by the District Committees, the Lieutenant-Governor might make an assignment of such proportion of the cost of establishment as he thought right to such District Committees.

Section 109, hon'ble members were aware, re-introduced the mode of collecting these cesses, which had on a former occasion been the subject of much discussion; namely, that these cesses should be collected by the easy and simple, and, to all concerned, the cheap process by which the land revenue was now collected. The system was to fix a well known date by which the cesses should be paid, and to impose a penalty for default - the sale of the estatewhich was so severe that practically the tax-payer took care not to incur it, and he took care to come in and pay the dues on or before the given date. The question was, should the cesses be collected according to that system, or should the person only, and not the estate, be followed; should they be collected as had been done hitherto very much in the way that other Government demands were collected? It would be seen that in the Bill which subsequently became Act X of 1871 as originally introduced into Council it was proposed to collect the cess as an arrear of revenue. The majority of the Council, he believed, were in favor of the proposal; but as a concession, the Lieutenant-Governor for the time being agreed that it should be given up in deference to the wishes of the minority. In the discussions some very able names were on the other side, and the argument they took was that not to make the cess recoverable as arrears of revenue was nothing but cruel kindness. If this power of realizing promptly and without cost by the fear of the estate being brought to sale was not given, it became necessary to entertain and let loose a host of peadahs with notices and processes, and all sorts of vexation attended the recovery. It would be for the Council to decide which of the two processes should be adopted: the Bill raised that question again. At present, for the levy of innumerable very trifling amounts of cess, armies of peadahs had to be kept up, and the costs often came up to the amount of arrears recovered, and more. As the Act now stood, the moveable property only of the defaulter could be followed. If the arrears were not to be levied as arrears of revenue, the power of recovering by sale of landed property (as well as of personal property) must at least be given, as was already the case for the levy of other public dues.

Lastly, Mr. Dampier would refer to section 112 of the Bill. There was a little haziness in the present Act as to the charge to be made for processes under the Act. It provided that the cost of certain processes should be paid for by those on whom they were served, and contemplated that the defaulter should only pay the exact cost of the process served upon him; but a large number of processes might be served by one man; and it then became impossible to say what share of the cost should be borne by each of

the persons upon whom a process was served. In practice, an average had been struck of the number of these processes and of the cost of establishment necessary for issuing them. Then the cost, whatever it might be, was spread over the total number of paying processes estimated to be issued in each district in the year, and an average amount was fixed as leviable on each process, instead of going through a calculation to find the cost of each individual process separately.

These were all the alterations of any consequence which the Bill in its present shape made in the existing law.

The Hon'ble Baboo Pearx Mohun Mookerjee said there were two or three points in this Bill which called for remark. When the present Act X of 1871 was passed, the Collector had no means of ascertaining the names of all the proprietors in an estate or the extent of interest held by each proprietor. It was consequently necessary to look upon each estate as a unit of assessment, and to make all proprietors who were joint owners thereof jointly and severally liable to the cess. The working of the law for eight years had shown that that provision had been a source of great hardship to a large body of landholders. In all cases of joint ownership the entire amount of the cess was recovered by the Collector from the shareholder from whom the cess could be most easily recovered, leaving him to seek redress by means of vexatious suits against his co-sharers. But now that Act VII (B.C.) of 1876 had placed in the hands of the Collector ample information as to the names and the extent of interest of all holders of estates in the district, the tax-payers had a right to expect, and Baboo Pearx Mohun Mookerjee thought with reason, that in an amended Cess Act some provision should be made for the collection of the cess from the different shareholders owning joint property in proportion to their shares,

The next point in regard to which he wished to make some remark was with reference to section 27. As had been justly remarked by the hon'ble member in charge of the Bill, the Bill gave the public authorities ample power to make a re-valuation of an estate at the end of five years. Baboo Peary Mohun Mookerjee thought that a landholder should have the right to put in new returns and to apply for a re-valuation in all cases in which the annual value of his estate had diminished since the date of the last valuation. He knew of several cases in which landholders whose assets had been reduced by the death of ryots, by relinquishment, or by diluvion since the date of the last valuation, had been obliged to pay much more than they were properly liable to pay.

But the most objectionable provision in the Bill was section 109, which sought to alter the existing law as to the recovery of arrears of cess. By Act X of 1871 arrears of cess were recoverable either by sale of the goods and chattels of the defaulter or by khas collection of the cess from the revenues of the estate by the Collector's agents. But section 109 provided that not only arrears of cess, but all fines, fees, and costs leviable under the Act, might be recovered as arrears of revenue by the sale of the estate. Hon'ble members were well aware that the cess was not payable by the holder of the estate alone, but partly by the holder of the estate and partly by the subordinate tenure-holders and ryots; why, therefore, should the estate of one person be sold for the recovery of that which was principally payable by others. Besides, if the estate were made liable to sale for the recovery of an arrear of cess however small in amount, the value of the whole property would materially depreciate, and ruin would be brought not only upon the defaulter, but also on his subordinate tennure-holders who might have paid their cess. As had been remarked by the hon'ble mover, a similar provision was contained in the original Bill which subsequently developed into Act X of 1871, and Sir George Campbell did not hesitate to call it a blot on that Bill. And if it was considered a blot at a time when the registry of proprietary titles in the Collector's office was in any but a satisfactory condition, how much more so was it now when there were complete registers of such titles. BABOO PEARY MOBUN MOOKERJEE hoped His Honor's Council would not give sanction of law to this most objectionable innovation.

The Hon'ble Kristodas Pal said, in asking for leave for the introduction of this Bill the hon'ble member in charge paid a well-merited tribute of praise to the memory of the late Mr. Schalch, who brought his great ability, sagacity, and knowledge to bear on the original design and subsequent elaboration of the Road Cess Act. Baboo Kristodas Pal thought hon'ble members of Council, who took part in the enactment of the Road Cess Act, would allow that the Council was equally indebted to another member—alas, now no more!—who lent his thinking mind and great practical knowledge to the solution of the problem then before them, he alluded to his lamented friend Rajah Digumber Mitter. Although that gentleman was on principle opposed to the imposition of the Road Cess, still, when it was decided that the cess should be imposed, he loyally and cheerfully co-operated in giving a practical shape to the Bill; and Baboo Kristodas Pal believed that the great self-acting principle of assessment, to which the success of the measure was chiefly due, was first suggested by Rajah Digumber Mitter and subsequently matured by the Committee.

The object of the present Bill was to remedy some defects of the existing Act, which its working for the last eight years had brought to light. By far the most important improvement which the hon'ble member in charge of the Bill had suggested was the registration of lakhiraj tenures for the assessment of those tenures. Baboo Kristodas Pal thought that of all men interested in the land, the lakhiraj holders were under the greatest obligations to the State, and ought to make full contribution towards the maintenance of roads and other communications, which benefitted them so much, because they made but scant return to Government for the protection and many other blessings which they received from it. Under the existing Act they had totally escaped assessment, except here and there where the zemindar had been too honest not to conceal rent-free lands in his returns: but even then they had not paid their dues in all cases. It was nothing but legitimate and just that some measures should be devised for the assessment of lakhiraj lands for road cess purposes, and for the easy recovery of the cesses from the owners of such lands.

The hon'ble member in charge had noticed seriatim the modifications introduced in the Bill, for some of which he had said he was not individually responsible. As to the definition of "cultivating ryot," it struck Baboo Kristodas Pal that it would be practically impossible for the zemindar to distinguish who were cultivating ryots in the sense they were defined in the Bill. The "cultivating ryot" was defined to be a person cultivating himself, or through hired labourers, or others, lands held in his name for which he received no rent in money or kind. Now, under this definition all ryots subletting their lands would be excluded, and how would a zemindar know how many ryots in his estate cultivated how much of his lands in the way indicated in the Bill, and how much he underlet. This definition ought to be carefully considered by the Select Committee and adapted to the real circumstances of the country.

With regard to the mode of recovery prescribed by the Bill, viz. that an arrear of cess should be regarded as an arrear of land revenue, he entirely concurred in the remarks which fell from the hon'ble member who had just spoken. This point, as his hon'ble friend had remarked, was very fully considered by the Select Committee on the Road Cess Bill of 1871, and also by this Council when the Bill was passed. And although there were some able officers, as the hon'ble member in charge of the Bill had observed, who were in favour of declaring an arrear of cess as an arrear of land revenue, the preponderance of opinion was in favour of the other view which was embodied in the Act. And Baboo Kristodas Pal did not think that the history of the working of the cess for eight years had brought to light any new circumstances which would justify the abandonment of the policy that had been adopted in 1871. The hon'ble member remarked that a host of peadahs might be scattered over the country for the collection of the cess, thus doing no end of mischief and hardship to those in default. But from enquiries he had made, Baboo Kristodas Pal had not come to know that, under the present system, there was reasonable apprehension for any such calamity as the hon'ble member had imagined. But he believed there had been great hardship and suffering in the realization of the house cess, comprising small sums collected from small

owners of houses; and in this Bill it was proposed, he believed rightly, to do away with the house cess. But with regard to the land cess, he did not know if there had been any difficulty in realizing it from land-holders; and although the present law did not recognize the principle of treating arrears of cess as arrears of land revenue, practically in many districts the Collector took good care to realize the cess first before the land revenue. He did not think there was any necessity for a change of the law on this point.

Then he came to that part of the Bill which referred to District Committees. From what he had heard and read he must confess that, notwithstanding the earnest endeavours of Government to avail themselves of the services of these Committees, in many districts they were huge shams. The members did not practically take any interest in the proceedings, and they were generally so far off from what he might call the scene of operations that they could not, without great inconvenience to themselves, always attend the meetings of the Committees. Where there were railways or other means of communication, members residing in the mofussil did occasionally attend; but many could not attend without much self-sacrifice, and also did not care for diverse reasons to attend. The Road Cess Committee therefore, it was generally supposed, represented the official views current at the head-quarters of the district; even those non-official members who attended were said to echo the voice of the officials. It was of course not in the power of this Council to make the members of Road Cess Committees take an active part in their business if they did not choose to do so or to infuse a spirit of independence where it did not exist, or of intelligent or enlightened thought where there was not room for it. But some provision might be made by which, as far as the legislature was concerned, the members of the Committee might be induced to take a greater interest in the administration of the fund. Looking to the provisions of the Municipal Acts, he found that certain matters were reserved for the consideration of an ordinary meeting, and certain other matters, involving large expenditure, reserved for the consideration of a special general The quorum for an ordinary meeting was small; that for a special meeting. general meeting was large: and generally special general meetings were more largely attended than ordinary meetings. If that principle were introduced into the Cess Act, and if it were provided that works which involved an expenditure of say Rs. 5,000 or upwards should not be decided at ordinary meetings, but should be laid before a special general meeting requiring a larger quorum, perhaps the members might consider these latter matters of greater importance and might feel a greater inducement to attend the special general meetings. Baboo Kristodas Pal would certainly make special provision for the meetings which would pass the budget estimates, as these were of the greatest importance to the district.

Then again with regard to appointments. Perhaps hon'ble members were not unaware that there was scarcely another public institution in which grosser jobberies were committed in the appointment of engineers and other officers than under the Road Cess Committees. The Government of Bengal had repeatedly issued instructions for the appointment of proper men to these offices; but those instructions had been little heeded, and private interests and influence had generally carried the day. He was sorry to say that favouritism and jobbery had run riot under many Road Cess Committees. He would suggest the insertion of a provision in the Bill giving power to Government to sanction appointments carrying salaries above Rs. 200 per mensem—a provision like that obtained in the Calcutta Municipal Act. The Chairman of the Corporation was competent to appoint persons to posts the salary of which did not exceed Rs. 200; but all appointments with salaries above that sum must be sanctioned by the Commissioners in meeting. In the same spirit the Road Cess Committee might nominate men to appointments above Rs. 200, but the ultimate sanction should rest with the Government. If the Government had a voice in the matter, he felt sure that the reign of favouritism now existing would come to an end.

Provision had been made for the grant of pensions and gratuities to Road Cess officers. At present the cost of establishment absorbed a considerable portion of the revenues of the Road Cess Committees; and practically

there was not a very large surplus left for necessary and useful works. He did not see any reason why the system of pensions should be introduced in the administration of the Road Cess. Pension was not allowed to municipal officers, nor to the officers of Guaranteed Railways, and he did not see why it should be conceded to Road Cess officers. If there was a superfluity of funds, there would be no objection; but as a matter of fact many useful works were starved for want of funds, and he did not consider it desirable that the resources of the Committees should be thrown away by granting pensions and gratuities.

Then the Bill provided that the maximum establishment charge should not exceed one-fourth of the estimated income of each year. It had been seen in some districts, and he might mention the district of Rajshahye as an example, that, although regular estimates of income and expenditure were prepared, the money was not expended, but the establishment was entertained all the same. He thought it would be more equitable to provide that the maximum cost of establishment should not exceed one-fourth of the actual expenditure on all accounts: then the Collector would make it a point to see that the works which had been estimated for were really carried out, or that the money provided for was really spent; surely, the money should not be hoarded and the cess-payers taxed without receiving the quid pro quo.

Baboo Kristodas Pal thought that the Nuddea Road Cess defalcation case ought to open their eyes as to how the Road Cess accounts should be kept. He was of opinion that some more rigorous checks and restrictions should be imposed on the disbursement of money than were contemplated in the Bill. At any rate he would associate one of the members with the Chairman and Vice-Chairman in the signing of cheques; three pairs of eyes would certainly see more than one.

In the next place Baboo Kristodas Pal would draw attention to the suggestion which was made in this Council in 1878 by his friend Rajah Promatha Natha Roy when the Public Works Cess Bill was under consideration. He suggested, in consideration of the trouble and loss to which zemindars were exposed in collecting the cess, that some remuneration should be given to them; and His Honor the President then said in reply that he did not think it was right at that time to propose any alteration of the scheme of the road cess, but continued—

"No doubt the amendment was upon a subject which was worthy of consideration, and His Honor had already publicly said that he was quite prepared to consider what remuneration should be given to the zemindars for the collection of these cesses. But he did not think that the Council would be in a position, without consulting the local officers of Government and others interested, to say what was the exact amount of moshaira which should be allowed to zemindars to cover their losses. He therefore thought the consideration of this section should stand over until the general amendment of the Act was taken up, so as to enable the Government to enquire what was the best to be done in regard to this matter."

Baboo Kristodas Pal thought the time had now arrived for the consideration of that important point, and he hoped the Select Committee would direct their attention to it.

Lastly, there was one point which he found had not been included in the Bill. The Bill provided for the construction and maintenance of roads, bridges, canals (not irrigation canals), and the like; but in some parts of the country, perhaps, a light railway would be more useful than roads. A railway project, combining several districts, if carried through, might develop the resources of those districts more rapidly and effectually than any number of roads. But the Bill did not give power to the Cess Committee to set apart any portion of the cess for such purpose. Baboo Kristodas Pal did not propose that any contribution should be given towards the capital outlay, but perhaps some grant-in-aid towards the payment of interest on such capital would go a great way in helping forward railway schemes of the kind he had mentioned. There was, for instance, the Gya railway project which was now hailed as a blessing by all classes of the people. At one time there was much difficulty in finding means for the payment of interest for the capital to be sunk on that project. The Government looked into the Road Cess Act, but could not find therein any authority for appropriating any portion of the Road Cess Fund to

that purpose. But the short experience we had had shown that the railway to Gya had done far more good than the metalled road which had been in existence for years. Similarly, there were other parts of the country where light railways would be very useful and beneficial, and small contributions, by way of payment of interest on the capital sunk on such railways for the first few years, might perhaps give an impetus to the development of the resources of the country which the mere construction of roads and bridges would not afford. He would therefore invite the attention of the Select Committee to the consideration of this important question.

The Hon'ble Mr. Dampier said, in reply, that he thought it must be admitted that many of the suggestions which had been made by hon'ble members opposite were valuable and worthy of very full consideration at the hands of the Select Committee. It would only be necessary for him to notice one from which he differed in toto, and one other which claimed notice from its importance. He differed from the first suggestion of the hon'ble member who followed him. The hon'ble member wished, because registers had now been opened in the Collector's offices in which the shares and interests of the proprietors of each estate were set out, that the liability for the payment of road cess should no longer be joint and several. He wished that the Collector should proceed against each sharer in the estate separately for the portion of the cess due by him. Mr. Dampier objected to this. He might mention that he remembered the case of a petty estate in Tirhoot in which there were as many as seven hundred shareholders, and although that was an extreme case, it was well known that in many parts of the country there were numerous shareholders in one estate. Now the Bill provided that the separate liability which was secured as regards land revenue by the opening of a separate account under Act XI of 1859 should be extended to these cesses also. If any joint-proprietor wished not to be held jointly liable for the cesses, let him apply under Act XI of 1859 for the opening of a separate account.

The hon'ble member opposite (Baboo Kristodas Pal) had plainly said that much jobbery was going on in the District Committees in making appointments. Mr. Dampier could only say how shocked he was to hear of this, and he was only glad that it was not in the department of the administration with which he had the honor to be connected. Personally, he knew nothing of the working of the part of the Act which referred to District Committees. But if he should receive instructions from the Government to amend the Bill in that respect, he would of course propose the necessary alterations for the consideration of the Select Committee.

The last point he would notice was the suggestion to make an allowance to the zemindar for the collection of the cess. Perhaps the hon'ble member would be surprised to hear that an allowance was already made and had from the first been made to the zemindar for collecting the cess from his ryots. He would read an extract from Mr. Schalch's speech in page 118 of the Council proceedings for 1871:—

"The Cess Committee (that was the Executive Committee which the Government appointed to consider and frame the measure) recommended that one-fourth of the rate should be paid by the proprietor and three-fourths by the occupier. They allowed that a more just division would be one-half to each; but as the burden of collection was thrown on the proprietors, they considered that in return some remuneration should be given to them, and the mode in which they proposed to give that remuneration would be by decreasing their proportion of the cess and increasing that of the cultivators. We, however, think it more fair to make the rate equal, each paying one-half, and to provide for the remuneration of proprietors for collecting the tax in another manner. The Cess Committee proposed that a deduction should be made of one-fourth of the amount of the rate on the amount of revenue or rent payable by proprietors. We now propose to raise that deduction to one-half. Calculating the Government revenue throughout Bengal at four crores of rupees, and the gross rental at twelve crores, the one-fourth additional allowance would, at the full rate of half an anna in the rupee, amount to something over three and a quarter lakhs of rupees, and it was submitted that that was a fair remuneration to give to the zemindar for the trouble and risk of collecting the rate. Therefore, as the Bill now stood, one-half of the rate would be paid by the proprietor and one-half by the occupiers."

HIS HONOR THE PRESIDENT said he thought many of the suggestions which had been made by hon'ble members were very useful and deserving of

consideration by the Select Committee to whom the Bill would be referred; he had no doubt that they would receive careful consideration in Committee; and he felt the more satisfied that such would be the case, because it was proposed by the hon'ble mover of the Bill to put the names of the gentlemen who had spoken on the Select Committee, and they would therefore have the opportunity of urging their own views. He did not propose to follow the hon'ble members through the various suggestions which they had made, but there were two observations which had been made by the hon'ble member who spoke last (the Hon'ble Kristodas Pal) which His Honor desired to confirm and support. One of these was as regards the appointment of officers by District Committees. He was sorry to say that there was very great truth in the remark which had been made regarding improper appointments made under the Road Cess Committees. Although people were very fond of accusing Government of being moved by personal influences when it had to make appointments, he was sorry to say that his experience showed him that no body was more open to influences of this sort than popular bodies and corporations.

The subject of the appointment of engineers, subordinate engineers, and other officers by Road Cess Committees had long since occupied His Honor's attention, and he was sorry to say that a number of improper appointments had come to his notice; and he had already had to veto several appointments, although he was not quite sure that he had, strictly speaking, the power to do so under the Act and the rules which were passed in Sir George Campbell's time. Still he had some hesitation in moving in this matter, because he knew that the idea existed that the Government was desirous to keep all such appointments in its own hands. But he was bound to say that he had received complaints from zemindars and bodies of independent gentlemen throughout the country as to the careless and improper manner in which appointments were made by District Committees, and they had urged that the Government should take the power of appointment into its own hands in order that properly selected, and duly qualified, officers of the Public Works Department only should be appointed. These officers were too often more highly paid than necessary. The salaries of the district engineers were often much in excess of the wages the Government paid for the same class of work, and many of the officers whose services had been obtained were of very low professional standing. There was no doubt a great deal of truth in the complaint that local influence was brought to bear on District Committees which made them appoint men who were not qualified and would not have been appointed by the Government. Therefore HIS HONOR should be glad if the Select Committee would take this matter into consideration, and to some extent limit the power of District Committees, not only with regard to the appointment of engineers and other skilled officers, but also put some such restriction as had been proposed as to the amount of salaries to be given to such officers.

Another suggestion which had been made, and which His Honor considered worthy of careful attention from the Select Committee, was that there should be given to the District Committee power to assign funds for the purpose of guaranteeing the interest on a light line of railway, or other means of communication, passing through a district where such a line was of more general use than a road. He believed that enormous good might be done by three or four District Committees joining together and guaranteeing the interest on capital for small lines of railway acting as feeders to main lines. The Gya railway was a case in point. If such a power had existed before the Gya railway was taken in hand, it would have been begun much sooner, for the District Committees were quite willing to come forward at the time and help. They had only to look at the extraordinary success of the Gya State Railway to convince themselves as to the desirability of some such provision being made in the Act. So long as the Gya road was merely a metalled road the cost to the Government was a lakh of rupees a year for maintenance; but although the railway had not yet been thoroughly completed it was paying the whole of the interest upon capital, and it was quite certain that as soon as sufficient rolling-stock was put on the line, it would pay even seven per cent. interest. The District Committees were, he must say, quite willing at the time to

assist in a guarantee of the interest, but there were legal difficulties in the way, and the proposal had to be abandoned. His Honor was sure that there were a great many other districts in which similar projects might be undertaken by District Committees, and therefore he should be glad that a section should be devised to enable District Committees to guarantee the interest on lines of rail-way passing through the district, if the scheme were approved and sanctioned by the Government.

The motion was then agreed to, and the Bill referred to a Select Committee, consisting of the Hon'ble Mr. Field, the Hon'ble Mr. Mackenzie, the Hon'ble Kristodas Pal, the Hon'ble Peary Mohan Mookerjee, and the mover, with

instructions to report in six weeks.

#### STREET TRAMWAYS IN CALCUTTA.

The Hon'ble Kristodas Pal moved that the report of the Select Committee on the Bill to authorize the making, and to regulate the working, of street tramways in Calcutta be taken into consideration in order to the settlement of the clauses of the Bill, and that the clauses of the Bill be considered for settlement in the form recommended by the Select Committee. He desired to state that only one communication had been received in respect of the Bill: it was from Colonel Tennant, the Master of the Mint. Colonel Tennant's communication had been considered by the Select Committee, and a clause had been inserted in the Bill saving the rights of existing tramways to cross any tramway constructed under the Act. There was an old tramway running from the Mint to the river bank, and the introduction of that clause was therefore considered necessary. But with regard to the representation of Colonel Tennant, that the passing of the tramway cars would disturb the automatic balances of the Mint, Baboo Kristodas Pal had placed himself in communication with the Chairman of the Municipal Corporation, who had been kind enough to obtain for him the opinion of Mr. Kimber, the Municipal Engineer, and of some eminent Engineers in the service of the Government.

#### Mr. Kimber wrote-

"In my opinion the vibration from cars running on the proposed tramway in the Strand Road will not be greater, if as great, as that caused by the existing traffic in loaded vehicles, which is constant. Much may be done by a careful and special construction of road, for such distance at all events as would be abreast of the Mint premises, and under the Act and Agreement we can see to this."

#### Then Mr. Souttar wrote-

"Since the receipt of Colonel Tennant's communication I have had an opportunity of consulting three eminent Engineers (all in Government service) on the point raised. They are all of the same opinion as Mr. Kimber, and indeed expressed their opinion in stronger terms than he has done. I cannot therefore think that Colonel Tennant's anticipations ought to stop the Bill. The automatic balances can, it appears, be removed; possibly, the Assay Office could also be removed further from the road. The tramway will also, it should be remembered, be a convenience to the Mint in several ways."

These opinions showed that there was no necessity for any further amendment in the Bill. Baboo Kristodas Pal would therefore proceed with the motion which he had just made.

HIS HONOR THE PRESIDENT said that this Bill had been very carefully considered by the Select Committee, and there did not seem to be any substantial objection to its provisions. He thought it was clear that Colonel Tennant was under a misconception as to the effect of a tramway passing along the Strand Road. It was not likely that any heavier vans and engines would pass along the road than those that now passed the Mint. His Honor did not quite understand the nature of the objection made by Colonel Tennant that the proceedings of this Council were not sent to him for consideration. It was not the custom to send copies of the papers and proceedings of the Council to the Mint Master, and he could not see why it was supposed that exception should be made in this case. Colonel Tennant seemed to have mistaken his position. The proceedings were all published in the Gazette, and if any officer had anything to say in connection with any Bill which had been introduced into the Council, he had the same opportunity of doing so that others had.

The matter had been under discussion both before this Council and before the Municipality, and he thought the special opinion of the able engineers, to which the hon'ble mover of the Bill had referred, made it unnecessary for the Council to make any change in the Bill with reference to the opinion of Colonel Tennant.

The motion was agreed to.

On the motion of the Hon'Ble Kristodas Pal the Bill was then passed.

### CALCUTTA PORT IMPROVEMENT.

THE HON'BLE MR. BUCKLAND moved that the time prescribed for the presentation of the report of the Select Committee on the Bill for amending the Calcutta Port Improvement Act, 1870, be extended for three weeks.

The motion was agreed to.

The Council was adjourned to Saturday, the 24th January.

## STATE RAILWAY REVENUE REPORT FOR THE YEAR 1879-80.

# GOVERNMENT OF BENGAL. PUBLIC WORKS DEPARTMENT.—RAILWAY BRANCH.

READ-

The Progress and Administration Report and the Appropriation and Outlay Accounts of the State Railways in Bengal for 1878-79.

The capital outlay on railways during the year 1878-79 was Rs. 66,41,043, and the total outlay from commencement under this head to the 31st March 1879 amounted to Rs. 2,75,91,838, distributed as under:—

				$\mathrm{Rs}.$
Northern Bengal			 	1,94,99,338
Tirhoot	• • •		 	52,31,294
Patna and Gya			 • • •	25,19,834
Nalhati		***	 	3,41,372

The amount of interest for 1878-79 payable by the Government of Bengal to the Imperial treasury is Rs. 10,92,210, arrived at by calculating at the rate of  $4\frac{1}{2}$  per cent on the total outlay up to the end of 1877-78 and on half the outlay of 1878-79.

The net receipts from the railways having amounted to Rs. 3,96,666, as compared with Rs. 1,68,241 in the previous year, the balance for which the provincial resources were liable was Rs. 6,95,544. The Patna and Gya line not having been opened, was earning no revenue.

having been opened, was earning no revenue.

The receipts of the year 1878-79 amounted to Rs. 18,11,043, against

Rs. 7,56,183 in the year 1877-78.

The following shows the revenue for each railway from the several sources as compared with the previous year:—

		Norther	n Benga	7.	
				Receipts, 1878-79.	Receipts, 1877-78
				$\mathrm{Rs}.$	$\mathrm{Rs}.$
Coaching				3,81,331	67,149
Goods		,	***	5,12,169	79,101
Steam-boat				1,14,493	9,971
Sundries				1,40,291	27,563
		Total		11,48,284	1,83,784
49		Tr:			
		11	rhoot.		
Coaching		•••		1,95,231	1,76,225
Goods	• • • •		• • • •	1,61,155	1,25,239
Steam-boat		•••		78,844	25,867
Sundries	•••		•••	18,411	20,534
		Total		4,53,641	3,47,865
				Management	
		Calcutta and	South-E	astern.	
Coaching				80,610	81,047
Goods				35,923	31,579
Sundries		*****		6,623	15,911
		. Total		1,23,156	1,28,537
				Management and Assessment States	-
		* N	alhati.		
Coaching		*		56,993	56,384
Goods			***	27,949	38,222
Sundries		*		1,020	1,391
		Total		85,962	95,997
	Grand	1 Total		18,11,043	7,56,183

The increase in the revenue receipts of the State Railways over that of the previous year is mainly due to the completion of the Northern Bengal Railway, the Julpigoree-Silligoree section having been opened on the 10th June, and the

branch from Parbatipore to Rungpore on the 2nd July, the only incomplete portion being the short branch from Rungpore to the Teesta at Kawnea. But irrespective of the additional length of the line, it is satisfactory to observe that both passenger and goods traffic showed a steady increase from the commencement to the end of the year, the total receipts for the latter half of the year being 43 per cent in excess of those for the first half.

The receipts on the Tirhoot Railway also show a steady increase over those for the previous year, and there is no doubt that it only requires a further development of the system by extensions eastwards and westwards to bring a

very much larger traffic to the railway.

The short Calcutta and South-Eastern and Nalhati lines show a decrease in comparison with the previous year's receipts. This decrease is, in the case of the Nalhati line, due to the cessation of the export of grain for famine purposes, which brought an abnormally large traffic to the line in the previous year. The passenger traffic showed a satisfactory increase.

In the case of the Calcutta and South-Eastern line, the falling off was in the passenger traffic, while the goods traffic, owing to the re-opening of the rice-mills at Canning, showed a fair increase.

The working expenses amounted to Rs. 14,14,377, against Rs. 5,87,942 for the previous year, and are divided between each railway as follow:-

Northern Bengal State Railway.

1877-78

D.

1878-79. D.

			Rs.		Rs.
Maintenance			1,67,590		7,278
Locomotive			2,52,204		50,666
Carriage and wagon			47,834		9,697
Traffic			1,85,028		38,453
General charges			1,26,116		45,928
Steam-boat			1,31,818		5,492
Special and miscellaneous			4,861		7,897
	Total		9,15,451		1,65,411
	(T):1	C/-/- T) - ''		4	
	Tirnoot	State Railway			100
Maintenance		5.4.4	56,111		32,721
Locomotive			68,741		65,337
Carriage and wagon			14,557		7,472
Traffic			50,235		51,329
General charges			49,011		48,137
Steam-boat	***		83,340	Ang.	25,675
Special and miscellaneous			19,257		6,169
	Total		3,41,252		2,36,840
Calcutta	and Sout	h-Eastern Stat	to Pailman		
Maintenance	ana south	a-Lastern Blut		·	05 400
T		•••	25,913		25,430
		***	28,187		32,144
Carriage and wagon Traffic	***		8,164		10,447
	***	***	11,437		10,961
General charges		•••	16,713		14,834
Special and miscellaneous			676		921
	Total		91,090		94,737
					-
	Nalhati	State Railway	<i>/</i> .		7
Maintenance			14,289		39,332
Locomotive			19,716		22,277
Carriage and wagon	***		10,078	1	7,898
Traffic			9,159		8,207
General charges		•••	12,838		12,085
Special and miscellaneous		4.00	504		1,155
Barrier and the second	Total		66,584		90,9541

14,14,377

5,87,942

Grand Total

From this statement it appears that the working expenses of the Northern Bengal and Tirhoot lines show a large increase, while those of the Calcutta and South-Eastern and Nalhati lines show a decrease in comparison with the previous year's working expenses. In the case of the Northern Bengal line the expenses are far too heavy, and although a large increase is naturally due to the opening of the line throughout its entire length, the increase is out of all proportion, and steps have already been taken to secure a better result in future.

With regard to the Tirhoot line the increases are principally under main-

tenance, carriage and wagon, steam-boat, and special and miscellaneous.

The increase under maintenance is due to heavier renewals of permanent way; that under carriage and wagon to necessary repairs done to old famine rolling-stock. Steam-boat excess is owing to the heavy charges made for the hire of Government steamers, as the ferry had at the time no equipment of its own. The increase under special and miscellaneous is owing to the maintenance of the Barrh branch line having been shewn under this head.

The decrease on the Calcutta and South-Eastern line is owing to fewer

repairs being necessary on engines and rolling-stock.

That on the Nalhati line is principally due to a grant having been made from capital to provide proper sleepers and fastenings, which relieved the charges under maintenance to a large extent.

The percentage of expenses to earnings are as follow:-

			1878-79.	1877-78.
Northern Bengal		 	79 72	90.00
Tirhoot		 	75.22	68.19
Calcutta and South	-Eastern	 	73.96	73.70
Nalhati		 	77.45	94.73

F. S. STANTON, Lt.-Col., R. E.,

Officiating Joint-Secretary to the Government of Bengal, P. W. Dept., Railway Branch.

# Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 17th January 1880.

No.	District,	and da	ite of	f	Rainfall at Sudder Station in inches.	
ENGAl	L.					
	Western	Distr	icts.			
1	Burdwan,	Jan	. 17	'80	Nil	Weather—clear; rather warm. Winter crops continue to progress favorable except in Raneegunge sub-division; but rain wanted everywhere, and last looks very dry. Health generally very good.
2	Bankoora,	,,	17	,,	Nil	Weather—since become warmer. Prospects of winter crops continue fave able. Public health good, excepting few cases of small-pox and cholera Bishenpore sub-division.
3	Beerbhoom,	,,	17		Nil	Weather-bright and cool. Cold-weather crops doing well. Cholera has near died out.
3	Midnapore,		17		Nil	Weather—seasonable State and prospects of crops favorable. Harvesting amun nearly finished.
4.00	Hooghly,	93	17	,,	Nil	Weather—warm for the season. Wind from south. Winter crops doing we Cases of cholera still in Serampore sub-division, but no serious outbreak.
	Howrah,	,,	19	,,	Nil	Weather-foggy and warm. Rice harvest nearly over. All else favorable.
	Central	Distri	ate			
6	24-Pergunna			'80	Nil	Weather—seasonable. Mornings and evenings foggy. Prospects of winter crefair, Amun harvest nearly over. Public health generally good, Spora cases of cholera in Baripore.
7	Nuddea,	,,	17	,,	Nil	Weather—cool and dry. Winter crops doing well, but rain wanted in north district. Public health generally good. Prices falling.
8	Jessore,	,,	17	32	Nil	Weather-seasonable and foggy in mornings. Harvesting of amun nearly ov A little vain would do good to winter crops.
9	Moorshedaba	d, ,,	17	,,	Nil	Weather—seasonable. Prospects of crops good. Transplantation of boro pad going on. Fever in a mitigated form still prevalent in thana Burwa. Choke still prevails in Berhampore town, but in a milder type.
10	Dinagepore,	Jan	16	'80	Nil	Weather—cool and seasonable with foggy mornings. Rubbee crops doing we Coarse rice now 22 seers per rupee. Small-pox and cholera in some parts district.
11	Rajshahye.	,,,	17	,,	Nil	Weather—cool and fair. Cutting of aman dhan nearly finished; outto more than average. Rubbee crops promising. Reaping of maskalai continu New common rice continues 16 seers per rupee.
12	Rungpore,	,,	16	,,	Nil	Weather—fine, but nights somewhat foggy. State and prospects of crocontinue good. Public health good.
12 13 14 14	Bogra,	>>	17		Nil	Weather—mornings misty, but clear and warm later in day. Rubbee cropromising. Sugarcane pressing commenced. Amun harvest nearly completed; outturn excellent.
14	Pubna,	.,	17	,,	Nil	Weather—fine. Harvesting of moong and kalai going on. State of spri crops good. Public health good.
15	Darjeeling,	,,	16	,,	0.69	Thick mist with drizzling rain and very cold damp air. Harvesting of haiman dhan nearly completed; outturn will be somewhat less than last ye Wheat, barley, mustard, and peas on ground, and prospects good.
16	Julpigoree,	,,	17	31	Nil	Weather—again become colder, and prevailing mist and fog given way to sunshit Crops as yet promising. Rain in the Dooars beneficial though slight. Am about 14 annas gathered throughout district.
1	Cooch Behar,		15		Nil	Weather—cloudy and looks like rain in mornings, but clears off during day. Property continue good; a little rain would benefit tobacco. Small-pox in place of rice risen slightly.

N	0	District a	ind d	ate (	of	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops and
EN	GA	L.—(Continue					
		Eastern	Dist	ricts	,		•
1	17	Dacca,	Ja	n. 17	7 '80	Nil	Weather—foggy in mornings. Days bright and cold. Amus all reaped; outtoo satisfactory; other winter crops promising.
	18	Furreedpore,	, ,,	.17	,,	Nil	Weather—seasonable. Mornings foggy. Harvesting of amun nearly complete outturn average. Prospect of winter crops good. General health good.
1	19	Backergunge,	. ,,	1.5	jo '	Nil	Weather—warm for the season. Foggy mornings now and then. Prospects crops excellent.
1	20	Mymensingh,	,,	16		Nil	Weather—seasonable. Crops all favorable.
1	21	Tipperah,	, ,,	16	"	Nil	Weather—fair and cold. Outturn of amun good all over district. Winter cropromise well.
1	22	Chittagong,	Jan	. 20	'80 :	0:06	Weather—seasonable. State of winter crops good. Cholera still prevailing south. Cattle disease in some parts of district.
1	23	Noakholly,	, ,,	15	"	Nil	Weather—warmer, with southerly wind and foggy mornings. Amun harve all but completed. Outturn excellent. Cold-weather crops doing well. Cas of small-pox.
1	24	Chittagone H	ill				Retnrn not received.
1		Hill Tipperah,	. ,,	14	<b>'</b> 80	Nil,	Weather—seasonable. Amun fully gathered; crop good. Mustard commence to be gathered. State of other winter crops fair.
EH	AK.						
		Patna,	Jan	. 17	<b>'</b> 80	Nil	Weather - bright and dry. Rain would now do good to rubbee crops.
	26	Gya,	,,	17	,,	Nil	Weather—cold and clear. Maximum reading in shade 80.2°. Aghani dheing threshed. Rubbee in good condition, but a shower of rain will improsit much. A few cases of small-pox in Jehanabad sub-division. Health plough-cattle good.
,	27	Shahabad,	31	17		Nil	Weather—seasonable. This morning (17th) a little foggy. Rubbee continus favorable, but rain now wanted. Prices risen to some extent. General heat good.
4:	28	Durbhunga,	**	17	,,	Nil V	Veather—seasonable. Threshing of aghani crop nearly completed. Rubb continues well. Prices stationary. Public health good.
1	29	Mozufferpore,		17		Nil V	Veather—seasonable. Rubbee prospects continue good.
1	80 8	Sarun,		17	,,	Nil	Veather—seasonably cold. West wind prevailing. Cold-weather crops doin well; but a good shower of rain would be very beneficial. Prices stationary Public health good.
1	31 (	Chumparun,	,,	17	,,	Nil V	Veather—fine, but cold. Rubbee good. Poppy thriving.
1	32	Monghyr,	Jan.	17	'80	Nil	Veather-clear and cold. Crops good everywhere. Rain would benefit rubbee.
2	33	Bhagulpore,		17	,,	Nil v	Veather—seasonably cold throughout week. Foggy this morning (17th Harvesting of paddy nearly over. Prospects of cold-weather crops good General health very good.
8	4 1	Purneah,	ъ	17	,,		Veather—seasonable. Some of cold-weather crops require rain. On the who prospects good.
8	5 1	Inldab,		17		Nii V	Veather—fair, but very foggy in morning. State and prospects of crops every where good. Prices of all sorts of grain gone down. Public health continue good.
Sec.		onthal Perghs				Nil V	Veather—fine. State and prospects of crops good.

N	io.	District, a	nd d	ate o	of	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and
ORI	SSA						
	37	Cuttack,	Jar	n. 17	'80	Nil	Weather—clear and cold. Harvesting of rice continues. Winter crops favorable. $Moong$ and mustard being harvested. Fever and small-pox still prevalent. Common rice $18\frac{6}{16}$ to $21$ seers per rupee.
ORISSA DIVE.	38	Pooree,	,,	15	,,	Nil	Weather—hot for the season. Sarad rice nearly harvested. Dalua progressing well. Sugarcane pressing still continues. New molass has come into market. Other crops doing well. Mango blossoms sprouting pretty well. Rice being exported to Madras Presidency on Chilka Lake. Fever still in places. Common rice 17 to 26 seers per rupee.
	39	Balasore,	,,	16	,,	Nil	Weather—clear; heavy dews at night. Main rice harvest finished, Rubbee crops in good condition. Public health normal.
сно	AT	NAGPORE.  South-West		ntie	r		
	40	Hazareebagh,	Jan	. 16	'80	Nil	Weather—clear and bright. Warmer than preceding week. Midday sun powerful. Wheat, barley, mustard, and other crops favorable. Paddy reaped, and fields now being ploughed. Rain wanted.
	41	Lohardugga,	,,	17	,,	Nil	Night's and mornings cool, Days warm. Rain wanted for rubbee crops. Small-pox on the increase. General health otherwise good.
	42	Singbhoom,	,,	16	,,	Nil	Weather—warm for the season. Some rain will do good to winter crops. Cattle disease in Turuf Bohragora in pergunnah Dalbhoom.
	43	Manbhoom,	,,	17	,,	Nil	Weather—clear; mornings cold; days warmer. Wheat, barley, mustard, cotton, and sugarcane on ground All others reaped. Prospects good.
					j		

Published for general information.

CALCUTTA, STATISTICAL DEPT., The 20th January 1880. A. Mackenzie,
Secy. to the Govt. of Bengal.

RETAIL PRICES-CURRENT OF FOOD-GRAINS, FIREWOOD, AND SALT IN THE UNDERMENTIONED DISTRICTS OF BENGAL FOR THE FORTNIGHT ENDING 15TH JANUARY 1880.

RETAIL PRICES-CURRENT of Food-grains, Firewood, and Salt in the und

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<sup>\*</sup> Return not seceived.

A In the interior the prices range as follow:—Wheat 12 to 12½ seers, barley (in Culna) 26 seers, best rice 13½ to 14½ seers, common rice 15½ to 19½ seers, and gram 13 to 13½ seers.

B In the interior the prices range as follow:—Wheat 9 to 12 seers, barley 17 to 34 seers, best rice 11 to 16 seers, common rice 15 to 18 seers, maize or Indian-corn 25 32 seers, and gram 9½ to 12 seers.

C In the interior the prices range as follow:—Wheat 10 to 13 seers, best rice 13 to 18 seers, common rice 14½ to 21 seers, and gram 10 to 12 seers.

D In the interior the prices range as follow:—Wheat 10½ to 11½ seers, barley 16 seers, best rice 6½ seers, common rice 10½ to 16 seers, and gram 12 to 12½ seers.

E In the interior the prices range as follow:—Wheat 10 to 16 seers, barley 14 to 20 seers, best rice 7½ to 13½ seers, common rice 14 to 18 seers, maize or fudian-corn (Kooshtea) 15 seers, and gram 10 to 13½ seers.

F In the interior the prices range as follow:—Wheat (in Navaii) 8 seers, best rice 7 to 11 seers, common rice 13 to 18 seers, and gram 8 to 10 seers.

G In the interior the prices range as follow:—Wheat 10 to 10½ seers, best rice 12 to 17 seers, common rice 15½ to 18 seers, and gram 12 to 18 seers.

H In Roygunge the prices are—Wheat 10 seers, best rice 14½ seers, common rice 17 seers, and gram 10 seers.

AVERAGE WAGES PER MONTH.

## ntioned Districts of Bengal for the Fortnight ending 15th January 1880.

SEER OF SO TOLAHS.

123	on In	NDIAN-			GR				F	rewo	ор,		SALT.		Ac	LABOUE	URAL		e or H		CAR	MON M PENTE	R, OE	
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1	In the	Interior	the	mi	240			£-1	law.	Wheat	111 to 1	15 goore	hoot vi	0 +-	10	4450	on rico	10 to 6	M same	and a	ram 8 to	0 000		

In the interior the prices range as follow:—Wheat 11½ to 15 seers, best rice 9 to 18 seers, common rice 18 to 20 seers, and gram 8 to 9 seers.

In Nattore the prices are—Wheat 10½ seers, best rice 8½ seers, common rice 15 seers, and gram 10½ seers.

In Sersjgunge the prices are—Wheat 12 seers, best rice 7½ seers, common rice 15 seers, and gram 10 seers.

In the interior the prices range as follow:—Best rice 5 to 12 seers, common rice 12 to 13 seers, lesser millets (in Kurseong) 12 seers, maize or Indian-corn (in Ruseong) 13 seers, and gram 6 to 7 seers.

In the interior the prices range as follow:—Best rice 7 to 13 seers, common rice 14 to 23 seers, and gram 7½ to 8 seers.

In the interior the prices range as follow:—Best rice 12 to 18 seers, common rice 18 to 20 seers, and gram (in Narangunge) 10½ seers.

In the interior the prices range as follow:—Wheat (in Goalundo) 12 seers, barley (in Goalundo) 16 seers, best rice 10 to 12 seers, common rice 16 to 21½ seers, and gram (in Goalundo) 8 seers.

In the interior the prices range as follow:—Best rice 12 to 15½ seers, common rice 14 to 16½ seers, and gram 8 seers.

In the interior the prices range as follow:—Wheat 10 seers, best rice 8 to 25 seers, common rice 16 to 30 seers, and gram 8½ to 16 seers.

AVERAGE WAGES PER MONTH

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mentioned Districts of Bengal for the Fortnight ending 15th January 1880 .- (Contd.)

ı	M	ATES	COL		MAIG	1		G	RAM				FIRE	WOOD				SAI	LT.		1	lor	LE-BO ICULT ABOUI	URAL		STC	E OR I	Iorse-	CA	MEON I	E, OR	
	Doneont Potners	Tresent termin.	Next preceding retorn		Corresponding return		Present return.		Next preceding return.	Corresnonding values	last year.	Present return.		Area preceding return.	Corresponding return of last year.		rresent return.	Next preceding return		Corresponding return of last year.	Procont rotum	The result is the first of the state of the	Next preceding return.	Corresponding return of last year.		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	DISTRICTS
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) 6	-					d		1		1			1.0	10		-	-		1		1.	-	- 10			- 1						Che Common Ches

In the interior the prices range as follow:—Wheat 12 to 20 seers, barley 16 to 30 seers, best rice 16 to 20 seers, common rice 20 to 22 seers, and gram 8 to 12½ seers, In the interior the prices range as follow:—Wheat 12 to 12½ seers, best rice 10 to 24 seers, common rice 12 to 25 seers, maize or Indian-corn 14 to 25 seers, and gram

21 In the interior the prices range as follow:—Wheat 12 to 12 seers, best rice 10 to 24 seers, common rice 12 to 25 seers, maize or Indian-corn 14 to 25 seers, and gram 10 to 12 seers.

21 In the interior the prices range as follow:—Wheat 12 to 14 seers, barley 20 to 27 seers, best rice (in Chutra) 15 seers, common rice 22½ to 24½ seers, lesser millets 35 to 40 seers, maize or Indian-corn 30 to 32 seers, and gram 12 to 17 seers.

22 In the interior the prices range as follow:—Wheat 12 37 to 15 seers, barley (in Daltongunge) 20 25 seers, best rice 16 88 to 28 seers, common rice 23 62 to 36 seers, molwa (in Daltongunge) 27 seers, murwa 33 75 to 45 seers, maize or Indian-corn (in Daltongunge) 40 50 seers, and gram 14 62 to 15 seers.

23 In the interior the prices range as follow:—Wheat 8 to 10 seers, barley (in Govindpore) 20 seers, best rice 19 to 22 seers, common rice 20½ to 24 seers, bulrush milist 16 to 40 seers, great millet 15 to 32 seers, lesser millets 34 to 40 seers, and gram 9 to 11 seers.

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A. MACKENZIE, Secy. to the Govt. of Bengal.

# WHOLESALE PRICES-CURRENT of Food-grains Firewood, and Salt in

	1	T										diament of the same	adoutto	100			or reduction					16		-								erver d						P	RI	CES 1	PER M	AUND
	. * 4	-	3				пв					1	-		1	Вал	RLE	r.					F	ici	E, 1	BES	T B	OR	τ.				Ric	Œ,	COI	им	on.			BULE	osn Mi	ILLET-
Number.	MARTS.			Fresent return,	the second spine of the second		Next preceding return.		and the same of th	Corresponding return	of last year.		Deserve askers	resent return.	The second secon		Next preceding return.			Corresponding return	or task years		Present return.			Next preceding return.			Corresponding return	or read Jean		Present return.			Next preceding return.	8	Pr Tare extrem	of last year.		Present return.	Next preceding return.	Corresponding return of last year.
		I	ζ.	Α.	P.	R	, A	. P	F		. 1	Р.	R.	Α,	P.	R	. A.	Ρ.	R	. д	. P.	R.	Α,	₽.	R		P.	R	. А	. P.	R	Α.	₽.	R.	۸.	P.	R.	Α.	P.	R.A.P.	R.A.P	R.A.P.
1	Calcutta ,	1	3.	7	0	3	8	(	3	13	3	6	2	4	0	2	8	0	2	15	0	6	0	0	6	0	0	7	0	0	3	5	0	3	5	3	4	0	0			-
2	Serajgunge		3	4	0	3	4	(	4	. (	)	0										5	0	0	4	8	0	5	8	0	2	8	0	2	4	0	3	12	0	#		p
8	Dacca		3 1	1	0	3	12	(	4		2	0	2	8	0	2	8	0				2	6	0	2	6	0	{	4 0 4 6	0	}	1 14	0	1	14	0	8	б	0			-
4	Naraingunge																					2	4	0				-	10		2	2	0	2	0	0	3	3	0			
5	Chittagong*	7.00					•••																			,									•••							-
6	Patna	1	2	5	6	2	5	(	5 2	1	3	9	1 1	.0	6	1	13	0	2	0	0	3	1	3	3	10	0	4	5	0	2	3	6	2	5	6	2	5	9			
7	Balasore	1	į.	0	0	5	0	(	1	. (	В	0					•••					3	9	Ú	3	2	0	3	2	0	2	8	6	2	6	0	2	10	0			
8	Pooree			**						**																					2	6	0	2	6	0	2	6	0			
9	Cuttack	-	3 1	10	0	4	8	. (	0 8	3 (	0	0		••			,,,			•••		3	10	0	3	4		8	3 4	. 0	2	0	0	2	2	0	2	5	0			

<sup>#</sup> Return not received.

The 20th January 1880.

# the undermentioned Marts of Bengal for the Fortnight ending 15th January 1880.

OF 4	10 S	EERS.	680			277967.0				7			1	7.5	1.00	4	1
		T MILL		RAGI	OR MU	RWA	MAIS	CORN.	DIAN-	26.7	GRAM.		F	IREWOOD.	6	ALT.	
Present retorn.		Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present retuin.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return. Corresponding return of last year.	Present return.	Next preceding return. Corresponding return of last year.	MARTS
R. A	. Р.	R.A.P.	1	R. A. F.	R.A.P.	R. A. P.	R. A. F	R.A. P.	R.A.P.	R.A.P	R. A. P.	R.A.P.	R. A. P	R.A.P. R.A.P.	R. A. P.	R.A.P. B.A.	P.
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Published for general information.

A. MACKENZIE,
Secy. to the Govt. of Bengal.

# Results of the Meteorological Observations taken at the Alipore Observatory from 11th to 17th January 1880

	in the state of th		barometer	TB	MPER	PURB	9	Н	YGROM	RTEY.		Wisb.	(M)		
Month.	Date.	Maximum in sun.	Mean pressure barol at 32° Fab,	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain	Weather.
1880.		0	Inches.	0	0	0	0	0	Inches	Θ	%		125	Inches	
Jan.	11th	135.6	29.866	63.6	79.2	27.2	52.0	57.8	0.405	53.1	71	Till 1 P.M. S W, till mid- night W by S.	12	Nil	Clear, f & w.
	12th	137.6	.880	68.2	78.4	26.7	51.7	56.1	*359	49.8	65	hiefly W by S.	20		Clear, f & w.
*	13th	137:7	928	65.4	77 9	22.5	55.4	61.8	.212	59.6	82	Till 4 P.M. S W by W, till midnight W S W.	44		Chiefly clear, f &
	14th	141.4	945	68°i	80.0	19.7	60.3	63.8	.236	61.0	80	Till 9-45 A.M. WS W, till 7 P.M. chiefly S W by W, till midnight S W by S.	78	***	Chiefly clear, f &
,,	15th	133-2	.967	65.3	76.6	20.3	56.3	58:4	400	52.8	67	Fill 9 A.M. S W by S, till noon chiefly N through W and N W, till midnight N W, N W by W.	39	# <b>***</b>	Clear, f & w.
"	16th	135.0	921	64.2	80.2	29.	51.9	57.9	*405	53.1	69	Till 2 A.M. N. W. by N., till 11 A.M. S. S. E., through W. and S. W., till 4 P.M. S. W. by W., through S., till midnight S. S. W.	93		Clear, f & w.
,,	17th	136.5	-901	68.9	62.4	21.0	61:4	65.4	.286	63.2	84	Till 9 A.M. S S W, till noon S W, till midnight S S W.	147	,	Clear, f & w.

The mean temperature of the seven days  The average temperature of the corresponding period for 24 years S. G. Office  The extreme variation of temperature during the seven days  The maximum temperature during the seven days  The mean relative humidity during the seven days  The average relative humidity of the corresponding period for 24 years S. G. Office  The total fall of rain from 11th to 17th January 1880  The average fall of the corresponding period for 24 years S. G. Office  The total fall from 1st to 17th January 1880  The average fall of the corresponding period for 24 years S. G. Office  O03  The total fall from 1st to 17th January 1880  The average fall of the corresponding period for 24 years S. G. Office  O14		The mean pressure of the seven days  The average pressure of the corresponding period for 24 years S. G. Office	4	1nches. 29.915 80.025	
The average temperature of the corresponding period for 24 years S. G. Office 66 9 The extreme variation of temperature during the seven days 30 9 The maximum temperature during the seven days 82 4  "/o The mean relative humidity during the seven days	No.			00023	
The extreme variation of temperature during the seven days  The maximum temperature during the seven days  The mean relative humidity during the seven days  The average relative humidity of the corresponding period for 24 years S. G. Office  The total fall of rain from 11th to 17th January 1880  The average fall of the corresponding period for 24 years S. G. Office  Nil.  The total fall from 1st to 17th January 1880  Nil.  Nil.  Nil.				65 5	
The mean relative humidity during the seven days 82.4  The mean relative humidity during the seven days 74  The average relative humidity of the corresponding period for 24 years S. G. Office 70  Inches.  The total fall of rain from 11th to 17th January 1880 Nil.  The average fall of the corresponding period for 24 years S. G. Office 003  The total fall from 1st to 17th January 1880 Nil.				66 9	
The mean relative humidity during the seven days	Į.			30.9	
The average relative humidity of the corresponding period for 24 years S. G. Office 70  The total fall of rain from 11th to 17th January 1880 Nil.  The average fall of the corresponding period for 24 years S. G. Office 003  The total fall from 1st to 17th January 1880 Nil.	ŀ	The maximum temperature during the seven days		82 4	
The average relative humidity of the corresponding period for 24 years S. G. Office 70  The total fall of rain from 11th to 17th January 1880 Nil.  The average fall of the corresponding period for 24 years S. G. Office 003  The total fall from 1st to 17th January 1880 Nil.				0/0	
The total fall of rain from 11th to 17th January 1880 Nil.  The average fall of the corresponding period for 24 years S. G. Office 003  The total fall from 1st to 17th January 1880 Nil.		The mean relative humidity during the seven days		74	
The total fall of rain from 11th to 17th January 1880 Nil.  The average fall of the corresponding period for 24 years S. G. Office 003  The total fall from 1st to 17th January 1880 Nil.		The average relative humidity of the corresponding period for 24 years S. G. Office		70	
The average fall of the corresponding period for 24 years S. G. Office 003  The total fall from 1st to 17th January 1880 Nil.				Inches.	
The total fall from 1st to 17th January 1880 Nil.				Nil.	
				0.03	
The average fall of the corresponding period for 24 years S. G. Office 0.14				Nil.	
	100	The average fall of the corresponding period for 24 years S. G. Office		0.14	

The mean pressure, temperature, &c., are deduced from observations made at 6h., 10h., 16h., and 22h.; the maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a that ched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction and movement of the wind are taken from the trace of a Beckley's anemograph. The month of the rain-gauge is one foot above the ground.

f fog, w dew.

METROBOLOGICAL OFFICE, INDIA.

The 19th January 1880.

HENRY F. BLANFORD,

Meteorological Reporter to the Government of India.

# Weekly Return of Traffic Receipts on Indian Railways.

# EAST INDIAN RAILWAY.

Approximate Keturn of Traffic for first 10 days of January 1880 on 1,507 miles open.

	. (	COACHING	TRA	FF1C.		MERCHANDI	E AND MINER	ÂL	TRAFFI	C.	- Pr	TR	IN MILES	BUN
	No. of passen- gers.	Con	ching	receipts		Weight earried.	Rece	ipt	ts.		TOTAL TRAFFIC RECEIPTS.	Coach- ing.	Merchan- dise:	Total.
Total traffic for the period Or per mile of railway For previous weeks of half-	199,663	Rs. 3,43,651 228	15 0 0 0	31,501	18 0	Mds. 8. 22,11,341. 0	Rs. A. 9,27,636 13 615 7	0	85,033	8 4	Rs. A. P 12,71,288 12 ( 843 7 1	74,323	157,438‡	231,761
Total for 10 days	199,663	8,43,651	15 0	31,501	8 7	22,11,341 0	9,27,636 13	0	85,033	7 6	12,71,288 12	74,3282	* 157,4381	231,761
COMPARISON.  Total for corresponding period of	1 70.7											JE - 104	1	
previous year	199,201	2,98,304		27,344		24,15.953 30	10,05,761 11				13,04,065 11 4	82,869	195,630	278,491
ing period of previous year al to corresponding 11 days	199,201	197 2,98,304	14 8 0 3		2 10 10 9	24,15,953 30	667 4 10,05,761 11			3 4	965 3 2 13,04,065 11 4	82,869	195,630	278,409

#### EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for last 4 days of December 1879 on 1714 miles open.

		COACHING	TRA	FFIC.			MERC	HANI	DISE AND M	INER	AL TRAP	PIC.	2010	To	tal
	Number of passengers.	Со	achin	g receipt	s.		Weight car	ried.		Rece	ipts.	. 4	100	recei	
		Rs.	A. P		£	s. d.	Mds	. 8.	Rs.	A. P.	£	. 6.	d	£	8.
Total traffic for the week	16,913 107 933,708	$17,461 \\ 101 \\ 6,39,402$	10 7		9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1,32,68 77 69,50,13	2 21	1 39,660 230 16,53,566	14 9	21	3	5	5,236 30 210,188	9
Total for half a year	950,621	6,56,863	2 10	60	209	14 8	61,82,81	9 26	16,93,226	12 3	155,215	4	0	215,424	18
COMPARISON.  Fotal for corresponding week of previous year.  Per mile of railway, corresponding week of previous year.  Potal to corresponding date of previous year	34,990 220 10,48,178	26,197 165 6,95,626	0 8		15	9 7 2 7 15 3	1,91,97 1,11 52,22,81	7 30	36,989 233 15,60,540	0 1	21	9	6 2 1	5,792 36 296,815	9

## EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for first 3 days of January 1880 on 1717 miles open.

Total traffic for the week	15,658 Rs. A. P 12,011 0 0 69 14 11	£ s. d. Mds. s. 1,101 0 2 86,739 0 6 8 3 505 1	Rs. A. P. 17,064 0 0 99 0 1	£ s. d. 1.558 14 0 9 1 6	& s. d. 2,659 14 2 15 9 9
	15,658 12,011 0 0	1,101 0 2 86,739 0	17,004 . 0 0	1,558 14 0	2,659 14 2
COMPARISON.  Total for corresponding week of previous year Per mile of railway, corresponding week of	18,3601 13,120 0 9	1,202 13 5 47,543 26	9,289 4 6	851 10 4	2,054 3 9
previous year	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 11 6 297 36 1,202 13 5 47,543 26	58 8 4 9,289 4 6	5 7 4 851 10 4	12 18 10 2,054 3 9

#### EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 10th January 1880 on 1713 miles open.

Total traffic for the week	41,459 261 15,658	38,854 197	A. P. 0 0 1 10 0 0	3,103 5 8 18 1 4	Mds. s. 2,02,391 0 1,178 16 86,739 0	Rs. A. P. 37,332 0 0 217 5 9 17,004 0 0	£ s. d. 3,421 2 0 19 18 5 1,558 14 0	37 19 9
Total for 2 weeks	57,117	45,865	0 0	4,204 5 10	2,89,130 0	54,336 0 0	4,979 16 0	9,184 1 10
COMPARISON.	4			- A				5,138 15 7
Total for corresponding week of previous year Per mile of railway cor. week of previous year Total to corresponding date of previous year	35,476 223 53,8364		8 6 14 6 9 3		1,40,137 12 882 30 1,87,680 38	27,975 14 2 176 3 7 37,265 2 8	2,564 9 1 16 3 1 3,415 19 5	32 7 6 7,192 19 4



# SUPPLEMENT TO

# The Calcutta Gazette.

WEDNESDAY, JANUARY 28, 1880.

## OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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# RESOLUTION ON THE REPORT ON LUNATIC ASYLUMS IN BENGAL BY THE COMMITTEE ON MEDICAL EXPENDITURE.

MEDICAL AND MUNICIPAL DEPARTMENT-MEDICAL.

Calcutta, the 26th January 1880.
RESOLUTION.

READ-

Report on the Lunatic Asylums in Bengal by the Committee appointed to enquire into Medical Expenditure in Bengal.

The Committee appointed to investigate the subject of medical expenditure in Bengal have now completed another branch of their enquiry, and submit a report on the lunatic asylums of the province. In drawing this up they have only been able personally to inspect the asylums at the Presidency; but they have gone carefully into the working of the other asylums, as shown in the annual reports, and have been in direct correspondence with the Superin-

tendents in all matters of doubt or difficulty.

2. The Committee had at first intended to take a comparative view of the general working and expenditure of the different institutions from the year 1862 up to date; but they very soon discovered that the annual returns upon which the head of the Medical Department and the Government itself have for years past been basing inferences, orders, and resolutions, are in fact, though arithmetically correct, practically only misleading. In spite of the orders of Government and of the general rules introduced in 1872, the system of accounts and the mode of filling up the returns have been found to differ in each asylum, while conclusions unfavourable to the management of some institutions that had apparently a safe basis to rest upon in the tabulated results, have proved on closer investigation to admit of the most full and satisfactory explanation.

3. Under these circumstances the Committee have acted wisely in taking up in detail only the accounts for 1877 and 1878, and analysing these so as to bring out and explain the differences and variations, real or apparent, in the

working of the different asylums.

4. Taking first the item of establishment, the cost per patient in each institution (omitting Bhowanipore) is shown in the following table:—

				Cost p	1877 er pa		Cost p	1878. er pal	tient.	
				Rs.	Α.	P.	Rs	A.	P.	
Dullunda			8	94	2	7	92	6	4	
Dacca				43	2	11	45	13	1	
Patna				40	4	5	42	11	4	
Cuttack		 ,	***	71	4	3	67	11	3	
Berhampore				43	5	4	37	0	8	
Hazareebagh	• • •	 -		37	9	. 1	41	9	5	

When these figures come to be analysed, much of the difference of cost is found to be accounted for by the constitution of the management, which has in each case been fixed by Government with reference to local circumstances and other considerations. At four asylums—Dacca, Patna, Berhampore, and Hazareebagh,—where the average strength is nearly equal, the cost assimilates very fairly. The Superintendent at each receives Rs. 250 a month, and the Deputy Superintendents Rs. 100 at Dacca, Patna and Hazareebagh, and Rs. 70 at Berhampore. Local differences of pay among the establishments account for part of the remaining differences. As to Dullunda and Cuttack, the Committee observe—

"The establishment at Dullanda is altogether exceptional. It has (with Bhowanipore) a Superintendent to itself, and is weighted with half of his pay as a Surgeon-Major of more than 25 years' service. It has a Deputy Superintendent, who, beginning on Rs. 100 a month, as in the other asylums, has by long and approved service had his pay gradually increased to Rs. 250. It has a matron on Rs. 50, whereas Patna and Hazareebagh pay only Rs. 25, and the others have no matron; and being situated at Calcutta, where prices are much higher than in the provinces, it has to give larger wages to almost every servant it employs; while, as most of its servants have been in the asylum for years, their wages have been increased with length of service. Its keepers are trained men of an exceptionally good type, and it is absolutely necessary to pay them fairly to retain their services. have they done their work that there has not been a single case of violence during the last At Dacca there have been constant complaints of the inefficiency of the keepers two years. and the insufficiency of the pay given. Cases of violence are not uncommon, and the same may be said of Hazareebagh. These considerations go far to account for the high average at Dullunda. Deducting the excess in the Superintendent and Deputy Superintendent's pay over the similar items elsewhere, reduces the cost, Rs. 30 per patient, and the difference in wages reduces it Rs. 11 more. There are several servants rendered necessary by conditions not apparently obtaining in other asylums—a gasman, four door-keepers, and two bakers. These cost Rs. 3-6 per patient. Allowing for all these items, the net cost is reduced to about Rs. 47-12 per patient in 1878, and it is only on this figure that comparison with the other asylums (excluding Cuttack) is possible. In the absence of the necessary local knowledge as to the details of plan, buildings, office work, and watch-and-ward, the Committee cannot explain the comparatively small variations which now remain; but they probably chiefly result from variations in numbers not met by corresponding reduction of establishment. A certain establishment is necessary, entirely independent of average strength. Extra keepers must be engaged as numbers rise, but a great proportion of the establishment is fixed, and would remain the same whether the numbers were halved or doubled. In all the asylums there has been a considerable fall in numbers within the last few years, but this is especially the case in Dullunda. In 1873 the daily average strength was 369; last year it was 204. At Dacca in 1873 it was 244; last year 196. The cost per patient at Dullunda was Rs. 52 in 1873 and Rs. 92 in 1878 in spite of large reductions in the cultural reductions in the cultural reductions in the cultural reductions. reductions in the subordinate establishment. At Dacca the figures are Rs. 35 and Rs. 46. The subordinate establishment at both asylums has been reduced; but the fall in numbers has more than kept pace with the reductions; the fixed establishment has remained the same, and the average cost per patient has risen greatly, entirely apart from any asylum control. This example is sufficient to show the very deceptive nature of averages per patient. The point is, however, even more conspicuously illustrated in the case of Cuttack. Reference to Table II will show that in its establishment and its rates of pay it compares most favourably with other asylums. Its Superintendent receives only Rs. 150 instead of Rs. 250, as at the other provincial asylums, or Rs. 609 at Dullunda. It has a native overseer on Rs. 25 in place of a European at Rs. 100 or Rs. 250. Its writer receives only Rs. 10, against Rs. 34 to Rs.60, and its native doctor Rs. 10 instead of Rs. 25 or Rs. 30; yet it has always occupied the second or third place in the order of comparative costliness. The combined pay of the Superintendent and Overseer is less than half what it is at Patna, yet the cost per patient is more than double. The reason is that Cuttack has only about a quarter of the number of patients under treatment at Patna.

5. The general conclusion come to by the Committee is that no just comparison of the relative cost for establishment is possible, and that the establishment in all asylums is, so far as they can judge, moderate. The Lieutanant-Governor sees no reason to dissent from this conclusion; but he desires that

the Surgeon-General will, as opportunity for inspection offers, look closely into the details of the subordinate establishments, and suggest such modifications as may seem warranted. The Inspector-General of Jails, who is ex-officio a visitor of all asylums, might also be requested to note specially on this question when he makes his periodical visits.

6. The question of diet was one to which the Committee were asked to give special attention, but they have found so much variation in the mode of accounting for supplies in the different asylums that any just comparison is

impossible. The figures as taken out of the reports are these-

*				Cost	1877. per p	atient.	1878. Cost per p	
				$\mathrm{Rs}.$	Α.	P.	Rs. A.	P.
Dullunda			***	57	13	9	55 12	7
Dacca				56	10	9	65 1	3
Patna				45	14	8	54 12	2
Cuttack			***	37	6	9	35 10	1
Berhampore	*,**			36	11	6	44 6	0
Hazareebagh	• • •			-35	0	8	$39 \ 13$	3

Speaking broadly, the differences are mainly accounted for by local differences of price; but there seems to be also great diversity of practice in the way of accounting for garden produce raised by the asylums, labor in husking rice and grain by the lunatics, and the like. There is also a want of uniformity in the diet-scales both as regards character and quantity. The Superintendents are generally opposed to any attempt to lay down a compulsorily uniform scale, on the ground that the price of dietary articles and the usual diet of the people vary greatly in each district. The Committee support the views of the Superintendents, and the Lieutenant-Governor will not press for the adoption of any uniform scale.

7. The Committee have gone very fully into the question of diet in

connection with Dullunda. They report as follows:-

The following table shows the component parts of the full diet which has been in use at different times since 1856. Various minor changes have been made from time to time:—

ABT	CLES.			In 1856.	From 1866 to 31st August 1869.	From August 1869 to August 1872.	From 1st Sept. 1872 to 14th March 1879.	Present scale
Wheat flour Rice Pulses Meat Fish Oil Ghee Salt Omions Spices Vegetables Firewood Coal or coke Butter 1 obacco Betel and pan			19242	chittack chittacks "" "Nil Nil chittack Nil chittack Nitacks Not stated	Nil 10 chittacks 2	Nil 10 chittacks 1 chittacks 2 chittacks Nil 1 chittack Nil 2 chittacks 1 seer per patient. Nil Nil 2 chittacks 1 seer per patient. Nil 2 chittacks 2 chittacks 3 chittacks 4 chittack	5 chittacks  1 chittack 2 chittacks Nil 2 chittack 3 chittack 1 chittack 2 chittack 1 ch	5 chittacks.  2 " Nil. Nil.  † chittack. Nil.  † kutcha.  † chittack;  † kutcha.  † chittack.  1 md. & 5 srs.  1 md. & 15 srs.  Nil.  † ounce.

• On alternate days. | † Discontinued in 1875.

The quality of the articles has invariably been excellent, the principle laid down by Government in the Asylum Rules being that all articles must be equal "to the best kind in use among the corresponding classes of persons in the neighbourhood." In 1857, Dr. Cantor writes: "They are far superior to those which the patients are accustomed to in health." Successive Deputy Surgeons-General testify to this, and to the excellence of the cooking and arrangements for feeding. The present dining-room and kitchens are perfect. Pilfering is all but impossible, and every patient gets abundance of good, well-cooked food, free from flies or dirt. In the long search for the causes of ill-health, the dietaries were altered and re-cast in every possible way. Extras have been freely given when required, and in 1869 the diet-scale was re-modelled, and a daily issue of ghee and meat sanctioned, because the then Deputy Surgeon-General declared the lunatics to be scorbutic—a conclusion which was not admitted by the Superintendent, and was subsequently shown to be erroneous. The great importance of feeding insane persons liberally has long been recognized, but the experience of Dullunda shows that, since 1856, there has been no connection between the diet and the death-rates, and the annual reports amply show that the latter were chiefly affected by other factors. The most liberal and varied diet ever given was that in force in 1856, and Dr. Cantor's evidence as to its quality has already been quoted. Yet the death-rate was higher than it has ever been since, and the low death-rate of the last three years has been coincident with a diet-scale smaller in quantity and less varied in

character than had ever before been tried. On assuming charge in 1860, Dr. Payne could "at all times find a man with a pile of untouched food by his side. The waste was enormous." He abolished the meat ration, substituted an allowance of oil for the butter, and reduced the vegetable ration by half. The diet-scale thus altered remained in force till 1866, the death-rate varying from 16 per cent. in 1863 to 33 per cent. in 1866. In 1866 meat was substituted for fish twice a week, but the diet otherwise remained the same. In the next seven years the death-rate steadily declined, coincident with various improvements in conservancy and other general arrangements, but mainly in consequence of a change in the class of patients admitted. In 1869 a controversy arose as to the sufficiency of the diet, which is of great interest, not only with regard to the health of the lunatics, but with reference also to the question of the cost of diet in the Calcutta Hospitals. Dr. Saunders declared the diet-scale to be "thoroughly inadequate," and found that "more than a fourth (of the patients) have clear indications of scurvy—not what Dr. Payne alludes to as blueness of the gums, but a swollen suppurating state of the gums with recession from the teeth, the latter having in many cases fallen out." Dr. Payne did not consider this to be due to scurvy, and "did not consider the dietary defective," but on Dr. Saunders' recommendation, a daily ration of four ounces of meat was substituted for the fish ration, the allowance of rice being slightly diminished and an ounce of ghee added. Of this diet Dr. Payne writes that "it is more ample and more complete than in any other institution, and contains everything that can be thought useful." He also remarks—"Several of the lunatics are unable to consume the rations allowed them." These changes added materially to the cost of the diet. The death rate continued to diminish, but the fall was attributed by Dr. of the diet. The death-rate continued to diminish, but the fall was attributed by Dr. Payne to other causes than the altered diet-scales, although he admitted that "the healthier men had gained in flesh and general appearance." In 1869 Dr. Saunders writes: "It is a significant fact that the simplest sores at Dullunda heal with difficulty." In 1870 Dr. Payne save: "An industry probably sore is many factors." Dr. Payne says: "An indolent, unhealthy sore is very rarely seen here." In 1871 Dr. Payne having gone to England on furlough, a series of observations were made by Dr. Bird with a view to deciding the question of the existence of scurvy. Careful notes were taken of the condition of the gums of all patients and new admissions, and it was found that the supposed scorbutic condition of the gums described by Dr. Saunders was not due to scurvy, but to the habitual neglect of their teeth by lunatics. The Surgeon-General, in his remarks on the report, says: "The observations on the condition of the gums in lunatics, which gave rise to the impression that they were suffering from scurvy, are important; \* \* \* \* it is very doubtful whether the peculiar appearances noticed are important; \* betoken scurvy at all, and quite certain that scurvy does not develop within the institution."

This seems to show that the improved and more expensive diet was ordered under a misapprehension as to its necessity. The reduced mortality which attended its introduction was followed by a considerable rise in 1874 and 1875; the increase, like the decrease, not being attributable to it. In 1875 the ration of ghee was stopped, yet in 1876 the death-rate was lower than in any previous year save one; while in 1877 and 1878 it has been lower than ever, and is now lower than in most English asylums, in spite of the fact that there is a larger proportion of cases likely to die in the Indian asylums. Since the beginning of this year the meat ration has also been abolished, two ounces of pulse being given in lieu of it, and the present diet-scale is less than that pronounced "thoroughly inadequate" by

Dr. Saunders; yet the patients are surprisingly

	YE	A.B.		Death-rate.		nantity of food.	Cost of food per patient.
						Oz.	А. Р.
1856				84.75	5	-	1 47
1957	***			31.94	1		1 4
1858					1	40 3	1 4
1859	***	***				(	1 4
1860		***			1		1 4 .
1861	***	***			11	1	1 4
1862		***		27.00	11		1 4
1863	***			16.60	3	331	1 7
1864	***			22'00	11	4	1 7
1865	***	***		27:00	11		1 7)
1866				33.00	)		2 11
1867	***			23.00	1	1	2 11
1868		***		17.91	1		1 10
1869				16:40	1	31 3	2 24
1870	***			12.62	1		2 42
1871	***	***		12.82	30	L	2 4½ 2 6
1872	***	***	***	12'42	30	1	2 5
1873	***			10'84	1	1	
1874	***	***		13'38	1	30 3	2 8
1875		***	***	16.01	)	(	2 9 2 8 2 4
1876	***	***		11.37	3	(	2 5
1877				7'04	1	-	2 5 2 61
1878	***	***		7.15	(	28 3	2 5
1879	***				1		1 9

<sup>\*</sup> Patients fed by contract,

Dr. Saunders; yet the patients are surprisingly healthy. The statement in the margin shows the death-rate, the quantity of food supplied in ounces, and the cost of food per patient per diem since 1856. One main cause of the increase in the cost has been a general rise in the price of provisions; but the general high level between 1869 and 1878 was due to the issue of meat and ghee. The marked reduction in 1879 has been brought about by the stopping of the meat ration and the substitution of a cheaper but more nutritious quality of rice. The provisions of all sorts are still fully equal to "the best kind in use by the corresponding classes of persons in the neighbourhood." Every patient has as much as he wants. Extras are freely ordered for the sick, but the great majority of the patients get the ordinary full diet, which is very similar to what they are accustomed to at home. Dr. Payne is convinced that it is in every way sufficient, and the general appearance of the patients seems to prove it to be so. The Committee can testify from personal knowledge that the lunatics at

Dullunda are amply fed with excellent well-cooked food.

<sup>\*</sup> There can be little doubt that Dr. Saunders' impression as to the inadequacy of the ordinary diets had a considerable influence in raising the cost of diet elsewhere. He was Chairman of the Committee which in 1870 raised the rates at the Medical College Hospital from 8 annas 10 pies to 12 annas, in spite of the statement by the Principal that "every patient receives in full all that can conduce to his recovery." It was on his recommendation also that the expenditure on diet in the North Suburban Hospital was more than doubled, to the serious embarrassment of the resources of the hospital, until the old scale was reverted to, to the benefit alike of the patients and the hospital funds. See Appendix I of the Report on the Calcutta Hospitals.

The Lieutenant-Governor entirely accepts the conclusions of the Committee

on this point.
8. The expenditure on bazar medicines is small, and the differences unimportant, depending probably on the more or less free use of indigenous drugs by different Superintendents. No statement of the value of English medicines has been furnished to the Committee by the Examiner of Medical Accounts.

To these items of expenditure the Surgeon-General will no doubt now

give careful attention.

9. The figures of contingent charges show great variations, and prove on examination not to be comparable inter se. They are-

	,				1877			1	1878.	
				Cost	per p	atient		Cost	per p	patient.
				Rs.	Α.	P.		Rs.	Α.	Ρ.
Dullunda	 . , .			14	5	11		20	12	7
Dacca	 		*.*	2	15	7		3	10	1
Patna	 			6	1	1	1	8	0	11
Cuttack	 			3	8	5		3	2	1
Berhampore	 	٠.		2	4	6		1	12	9
Hazareebagh	 			3	4	11		2	10	3

The Dullunda asylum shows under this head expenditure on account of paying patients. Great differences in the cost of lighting are found to exist, explained in Dullunda by the use of gas for oil, and in other asylums by varieties of practice in the mode of accounting for oil made in the asylums. Again, in Dullunda many subsidiary buildings made out of manufacture profits are repaired from the contingent allowance, while in other asylums all buildings are on the Public Works books. Moreover, many costly improvements have been introduced at the Presidency that are not asked for elsewhere. The apparently heavy charge at Patna, as compared with other institutions in the interior, is accounted for by charges for ground rent.

The figures for the item of clothing compare thus-

		1877.	1878.
		Cost per patient.	Cost per patient.
		Rs. A. P.	Rs. A. P.
Dullunda	 	 $2 \ 15 \ 0$	4 0 9
Dacca	 	 1 6 8	4 7 1
Patna	 	 $2 8 11\frac{1}{2}$	2 9 6
Cuttack	 	 2 11 8	2 10 7
Berhampore	 ***	 2 10 8	3 5 0
Hazareebagh	 	 4 0 8	5 0 10

The Berhampore figures are lower because lunatics drafted to that institution from other asylums took new clothes with them. Local variations in price, and difference in the mode of accounting, explain the other discrepancies.

11. The system of manufacture in asylums had its origin in Dullunda, where also it has been carried out in its most complete form. Work has been found to have a decidedly good effect on the patients. The proceeds were up to 1872 at the unfettered disposal of the Superintendents, and enabled them to carry out many improvements that would perhaps have not easily got official sanction. In 1872, Sir G. Campbell directed that all money received should be paid into the treasury, and all money spent be drawn thence and be regularly budgetted for. The accounts thus show now the actual receipts and expenditure on manufacture account during the year, an allowance of 10 per cent. depreciation being allowed for machinery. The Committee point out that, while this account is a correct record of cash transactions, it fails to show the true working of the asylums, inasmuch as it ignores stock in hand not sold, plant and machinery added, and work done for the asylum itself. The Committee have compiled a table to show the actual profits if these items are taken properly to account.

	Dull	unda.	Dac	ioa.	Patna,			
	1877.	1878.	1877.	1878.	1877.	1878.		
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
Profits as per Surgeon-General's reports Difference of raw materials in store	4,012 3 6 296 11 16	1,513 11 0 +618 1 11	3,568 9 2 +104 13 1	3,923 2 11 -27 3 7	2,180 9 2 +40 1 0	3,218 8 8 -320 15 0		
Difference of manufactured goods in store	3,715 7 8 -7 7 8	2,131 12 11 +688 13 11	3,673 6 8 -263 0 1	3,895 15 4 295 7 6	2,220 10 2 -832 15 0	2,897 8 11		
Difference of plant and machinery in store	3,708 0 5 +4,823 5 6	2,820 10 10 +3,437 8 0	3,410 6 2 -17 0 5	3,600 7 10 -18 8 6	1,387 11 2 +138 13 0	+104 7		
Total net profits	8,531 5 11	6,258 2 10	3,393 5 9	3,582 4 4	1,526 8 2	3,001 15 1		

		Cuttack.						ha	mpore.	Hazareebagh.				
	18	1877.			1877. 1878.					1877.		1878.	1877.	1878.
	Rs	Α.	Р.	Rs.	Λ.	P.	Rs. A.	P.	Rs. A. P.	Rs. A. P.	Rs. A. P			
Profits as per Surgeon-General's reports Difference of raw materials in store	1 430		8	372 -385	$\frac{7}{6}$	8	1,583 8 +98 8	5	1,458 0 4 97 0 0	666 14 2 +41 13 2	772 15 +277 10			
Difference of manufactured goods in store $\hfill \dots$	4.77		7	-12	15	3	1,681 6 +5 8	5	1,361 0 4 +25 0 7	708 11 4 +50 8 4	1,050 9			
Difference of plant and machinery	1		11	+4	10	8	1,686 14 +102 14	8	1,386 0 11 -22 14 4	759 3 8 +95 15 9	+65 13			
Total net profits	82	13	8	-8	5	θ	1,789 13	0	1,363 2 7	855 8 5	1,116 6			

On this they remark as follows:-

They show not only that Dullunda is far in advance of the other asylums in regard to its real profits, but also that its industrial system is far more highly developed than that of the others. This is no doubt in part due to the better market which the metropolis affords for the ready and quick sale of manufactured articles. With a working population only twelve in excess of that of Dacca, its cash receipts for articles sold were in 1878 Rs. 18,926 against Rs. 6,315, while it made over for asylum use goods valued at Rs. 6,882 against Rs. 36. In addition to this, it added during the year Rs. 618 to the value of its store of raw material, Rs. 688 to its stock of manufactured articles, and Rs. 3,437 to its plant and machinery; while Dacca shows a falling off under each of these heads, amounting in the aggregate to Rs. 340. The net result is that the profits at Dullunda are raised from Rs. 1,513 to Rs. 6,258; while those at Dacca fall from Rs. 3,923 to Rs. 3,582. The net earnings per employed patient are thus Rs. 34 at Dullunda and Rs. 20 at Dacca—a very different result from that obtained by a calculation on the official "profits," which gives only Rs. 8 at Dullunda and Rs. 22 at Dacca. The success of the operations at Dullunda is mainly due to the great energy and ability of Mr. Bancroft, the Deputy Superintendent, and the excess of outturn, as compared with that of other asylums, more than covers the whole of his salary. Government does not reap the benefit financially, but the asylum does, and it is in this way that it has gradually perfected its internal arrangements. The ruling principle which should govern labour in asylums is not profit, but the benefit of the insane, and the assimilation of asylum life to that of rational life elsewhere. This principle has been repeatedly recognized by Government. The profits are incidental merely.

12. The Committee allude to a recommendation recently made by them on a reference from this Government, that the lunatics should be given a direct interest in their labor, and be allowed extra indulgences as a reward for good work. The Lieutenant-Governor has already ordered that this plan, which is followed at the Broadmoor Criminal Asylum in England, shall be adopted experimentally.

13. Having explained clearly the difficulties of making any trustworthy comparison between the working of the different asylums in the past, the Committee pass on to offer certain recommendations designed to facilitate

such comparison in future.

The recommendation of the Committee, that (1) "the detailed report of each asylum should be printed as an appendix to the Surgeon-General's report, as was done up to 1874, or if this be thought undesirable, that a copy of each report be furnished to the Superintendent of the other Asylums," cannot be adopted in its entirety in view of the stringent orders of the Government of India that subsidiary reports should not be appended to the reports of heads of departments. A copy of the annual report of each asylum will, however, as proposed, be furnished to the Superintendents of the other Asylums.

The following recommendations made by the Committee have the Lieu-

tenant-Governor's approval :-

II.—That the cost of superintendence, i. e. the pay of the Superintendent and his deputy, or the Overseer and Matron, should be shown separately from establishment proper. This might be done by subdividing the heading "Establishment" in table No. IX, into two heads, viz. "Establishment proper" and "Superintendence."

III.—That all charges for stimulants, sweetmeats, tobacco, and hospital comforts be included under the head of "diet," except

IV .- That indulgences granted as rewards for work be charged to the manufacture accounts.

The charges incurred on account of indulgences might, the Lieutenant-Governor observes, be shown in table IX, under the sub-head of "Contingencies of Manufacture."

V.—That all general charges for repairs and construction, painting, and general maintenance and improvement of asylum buildings be eliminated from the contingent accounts and shown under a separate heading as "Repairs and Maintenance," a statement of any work done by the Public Works Department being obtained from that Department and included under this head. Work done on manufacturing account to be separately entered in that account.

The Lieutenant-Governor directs that charges for repairs and maintenance of asylum buildings be entered separately as a sub-head of ordinary contingencies in table No. IX. A separate column showing the total charges, excluding such "repairs and maintenance," might be added. Another column should be devoted to the charges on account of work done by the Public Works Depart-The Surgeon-General is requested to revise the table in accordance with these directions and to submit a copy for the approval of Government.

VI.—That a new column be added to statement XI showing the real profit of the asylums.

The Committee remark that the additional column is required to admit of a comparison being made of the industrial results of the asylums inter se.

The present column of "profits" should be retained.

14. The Lieutenant-Governor approves the proposal (VII) that all asylums should adopt the same system of supply,—i.e., that raw materials purchased for diet, clothing, lighting or other purposes, when worked up for use by asylum labour, should be issued without charge, and without the intervention of any

intermediary.

The Committee's proposals (VIII) that a statement showing the ruling prices of the chief articles of diet should invariably accompany each report, and (IX) also an analysis of the contingent expenditure are also approved. The Lieutenant-Governor entirely agrees with the Committee that although any general uniformity in cost at the different asylums can, under present conditions, scarcely be expected, yet it is essentially desirable that means should be afforded for an approximate comparison of all important items of expenditure in the several asylums.

15. The Committee conclude their report by reviewing the history and working of the Bhowanipore European Asylum. The establishment is fixed and does not vary with the number of patients. It has been reduced to a minimum already, and the Committee state that there is no superfluous person employed. The cost is Rs. 783 per mensem. On the important matter

of diet, the Committee write:-

The average cost of diet per patient given by order in the annual reports is a correct arithmetical mean between the cost of paying patients with their liberally supplied separate table, and that of pauper patients with their simpler and cheaper food. Even as a mean it is useless for comparing the expenditure of one year with another, since the proportion of paying patients to paupers varies in every year, indeed from month to month, and day to day. The total expenditure on diet in different years is therefore not comparable, and as prior to 1877 the books do not discriminate between the two classes of patients, it is impossible to ascertain the relative cost of each class in former years. The total cost varies greatly, but the variations are believed to be explainable by variations in the proportion of first class and second class patients.

There can be little doubt that up to 1862 the quantity of food supplied was excessive, for

Ment	***	***	***	***	***	1 4 1	t lb.
Bread	***				***		1 ,,
Vegetables							1 ,,
Rice			111	111			b oz.
Sugar							1 ,,
Onions	***				***		1 ,,
Butter							1 ,,
Flour						144	1 .,
Farley					111	***	1 ,,
Tea							1 ,,
Spices			***		***		3
Fruit.							• //
Lemonade							
Milk, one		e.					

although there were no diet-scales, that noted in the margin was considered "a bare standard full diet" for the pauper patients, subject to daily alterations and additions, such as "poultry, pastry, wine, beer, coffee, ice, &c." The first class patients had for breakfast "eggs, fish, steaks, chops, cold meat, rice, fruit, preserves, tea, coffee." and for dinner, "soup, joints, or poultry, Spices
Fruit
Lemonade.
Milk, one measu e.

side-dishes, vegetables, pastry, fruit, preserves, sherry, port, beer, lemonade of lemons or bael, iced when desired," and tea and toast morning and evening. The quantities appear to have been unlimited. The second class "bare standard"

scale, prescribes 56 ounces of food exclusive of fruit, condiments, and milk, or nearly double the quantity which one of the latest authorities on food states to be sufficient for Europeans working in a cold climate, where more food is necessary than in India, and far more than most actively employed Europeans consume in India. Considering that the lunatics do no work, Dr Payne reduced the quantities considerably in 1862 without in any way affecting the health of the patients. They have always been singularly healthy,—a fact repeatedly mentioned in the

Average.	Strength,	No. of deaths.	Per cent. o
1856	***	9	*****
1857		4	******
1858	***	8	******
1859		3	
1-60	59	5	8 13
1861	66	5	8.83
1862	4.6	ő	10.87
1863	36	3	8.33
1864	26	1	3.85
1865	27	2	7.40
1886	23	6	26:08
3867	25	7	28 00
1868	98	3	11.54
1869	27	2	7:40
3870	25	2	8:00
1871	30	3	10.00
1872	38	-)	2 63
1873	27	4	14 80
1874	25	- 3	12.00
1875	26	3	11:54
1876	26	4	15 38
1877	29	Õ	
1878	28	5	17.86
	20		00

is extremely misleading. One or two deaths more or less will make an enormous difference in the rates, as is shown in the margin. A considerable number of these deaths took place shortly after admission, the patients being hopelessly ill when received into the asylum; and the amount of sickness has always been small. The death-rates prior to 1860 cannot be calculated, as the average strength was unknown, but the actual number of deaths vary greatly as in subsequent years. One man who died this year (1879) had been 48 years in the asylum. Of the five deaths last year, one occurred in a man aged about 70; one case was admitted moribund; and another with the fatal illness already developed; none of the five could be attri-buted to the influence of the asylum. Sickness

seldom arises in the asylum. The dietaries and the death-rates have had no apparent connection. At present the average consumption of food is about 36 ounces per patient daily. It is of excellent quality. The great saving in 1878 has been due to a diminution in the number of first class patients, and of pure Europeans who eat more than Eurasians. The average cost of diets has varied from 7 annas 6 pies in 1863 to 13 annas Eurasians. 6 pies in 1877; but, as already pointed out by Dr. Payne, this is a mere arithmetical mean, and does not correctly represent the expenditure on either class of patients. The first class patients have cost much more, and the pauper patients much less than the average. variations have depended on the proportions of different classes of patients and of Europeans and Eurasians. Since 1876 there have been four classes of patients, the first three paying Rs. 150. Rs. 80, and Rs. 45 respectively, the fourth paying nothing. Up to 1877 no attempt Rs. 150, Rs. 80, and Rs. 45 respectively, the fourth paying nothing. Up to 1877 no attempt was made to distribute the cost of dieting the different classes, but this is now done as far as practicable. It is found that first class patients cost about Rs. 32 per mensem, second class Rs. 17, third class from Rs. 10 to Rs. 12, and fourth class from Rs. 8 to Rs. 10; the amount varying with the season of the year. The daily expenditure on fourth class patients varies from about 3 annas 2 pies to 5 annas 2 pies according to season, the average being about 4 annas 1 pie. This, however, does not represent with absolute exactness the true value, since waste is not permitted, and any food remaining unused from the first and second class tables is very properly utilized in feeding the others. This would bring up the true value of a fourth class diet to about 4 annas 6 pies a day. All the patients said they had plenty to eat, and many of them frequently leave a considerable portion of their food. The Committee are satisfied after careful enquiry and examination that the food leaves nothing to be desired either in quality or quantity, and the numbers being small, much greater variety in cooking is possible than in the large hospitals. The Committee think that in the past the cost of diet has been greater than was at all necessary, but this was a direct consequence of the system by which many of the patients were far better fed than they had ever been at home.

With regard to the Committee's recommendation that the pay of the Deputy Superintendent of the European Asylum at Bhowanipore should begin at Rs. 250, and rise by annual increments of Rs. 10 per mensem to a maximum of Rs. 400, the Lieutenant-Governor, while acknowledging the good work done by Mr. DeVere, the Deputy Superintendent, regrets his inability, under existing financial circumstances, to recommend any increase to his present pay. The recommendation of the Committee will, however, be kept in view.

17. The Lieutenant-Governor desires that an expression of his thanks be

J. O'Kinealy, Esq. Surgeon-Major J. M. Coates President. J. Jones S. C. Mackenzie Members. C. Macaulay, Esq. Surgeon-Major R. Harvey

conveyed to the President\* and those members of the Committee who took part in the enquiry, for the full and clear report which they have sub-mitted on the working of the

Lunatic Asylums in Bengal, and the practical suggestions which they have made.

ORDER.—Ordered that a copy of this resolution, together with a copy of the report, be forwarded to the Surgeon-General, Bengal, for information, and for communication to the Superintendents of the several lunatic asylums.

Ordered also that a copy of the resolution be forwarded to the Account-

ant-General for information.

Ordered also that a copy of the resolution, together with a copy of the report, be forwarded to the Inspector-General of Jails for information.

Ordered also that a copy of the resolution be forwarded to each member of the Committee for information, and that it be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

A. MACKENZIE,

Secretary to the Government of Bengal.

#### Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 24th January 1880.

No. District, and date of return.		Rainfall at Sudder Station in inches.		
NGA	.L.			
	Western Distri	cts.		
1	Burdwan, Jan.	24 '80	Nil	Weather—fair and cool. Rubbee crops good everywhere except in Raneegunge but rain much wanted. General health good.
2	Bankoora, ,,	24 ,,	0.18	Weather—warm at beginning of week. Moderate rain with hailstones on 23rd cooled air since. To-day (24th) strong west wind prevails. Cold-weather crop looking well. Gathering of early mustard commenced in places. Sugarcan fast ripening and progressing favorably. Public health good. A few cases of small-pox and cholera still in Bishenpore sub-division.
3	Beerbhoom, ,,	24 ,,	0.30	Weather—hotter than usual till rain fell. Cold-weather crops promise well Cow-pox still prevalent in several villages. A few cases of cholera in north.
1 4	Midnapore, ,,	24 "	Nil	Weather—seasonable. State and prospects of crops favorable.
5	Hooghly, "	24 ,,	0.24	Weather—warmer. A thunderstorm on 23rd. Prospects of cold-weather crop continue good. A few cases of small-pox still in parts of district.
	Howrah, Mohesrekha	26 ,,	0.07 0.10	Weather—cooler than last few days. State and prospects of crops favorable.
	Central Distric	ts.		
6	24-Pergunnahs, Jan	. 24 '80	0.02	Weather—not seasonable; hot weather set in before its time. Amun harves over. Boro dhan being transplanted. Winter crops promising. Health fair
7	Nuddea, ,,	24 ,,	Nil	Weather—warm in early part of week, latterly cold. Slight rain on night of 23rd. Winter crops good; in some places harvest nearly over. Prices falling Public health good.
8	Jessore, "	24 "	0.66	Weather—seasonable and foggy in mornings. Slight rain last night (23rd); mor wanted. Prospects of winter crops favorable Health generally good.
9	Moorshedabad, ,,	24 ,,	0.68	Weather—cold. Prospect of crops good. Rain of 23rd will do good to winte crops. Fever in a mitigated form still prevalent in thana Burwa. Choler in a milder type in Sujagunge and Kaliangunge police stations.
10	Dinagepore, Jan.	23 '80	0.83	Weather—cool and cloudy. A hailstorm on morning of 20th caused sligh damage to crops. Sugarcane being pressed. Maskalai all cut. Mustare in seed. Mangoes in blossom. Small-pox and cholera in some places.
11	Rajshahye, ",	24 ,,	0.30	Weather—foggy in mornings. Rain at close of week. Paddy harvesting nearly completed; outturn more than an average. Reaping of Maskalai continued Common rice 16 seers per rupee.
12	Rungpore, ,, Gaibanda Bagdogra Kurigram	23 ,,	1·36 0·53 0·60 1·29	Weather—cold and cloudy. State and prospects of winter crops continue good and recent rain has been beneficial. Public health good.
13	Bogra, "	24 ,,	0.47	Weather—cloudy and cold. Some rain on 20th. Harvesting of amun nearly completed; outturn excellent. Kherachi thriving.
14	Pubna, "	24 ,,	0.24	Weather-cool. Foggy in morning, with a little rain on 23rd. Spring crop promise well. Public health good.
15	Darjeeling, ,,	arjeeling, ,, 24 ,, 0.67		Haimanti dhan almost all harvested; outturn will be somewhat less than las year. Prospects of mustard, wheat, barley, and other minor crops good.
16	Julpigoree, "	24 "	0.5	Weather which was misty has cleared. Reaping of dhan almost completed good harvest obtained. Wheat, barley, mustard, tobacco, and potatoes in good condition. In Patgram jute and sugarcane backward.
)	Cooch Behar, ", Mathabhanga"	23	0.31	Some rain on 20th. Mornings foggy; weather cold as usual. Rain has improved prospects of tobacco, wheat, pulses, and other crops. People can now plough fields for early rice. Public health generally good Small-pox cases here an there.

				te o	f	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and state of health at date.							
BEI	NGA	L.—(Continued												
		Eastern I		. 24	280	Nil	Weether form and seel Winter commission will Deblis health and							
	17	Dacca,	Jan	, 24	80	NII	Weather—foggy and cool. Winter crops promising well. Public health good.							
AN.	18	Furreedpore, Goalundo	,,	24	"	0·37 0·22	Weather—cloudy since 23rd and rain at night. Prospects of cold-weather crops continue good. General health good.							
DACCA DIVE.	19	Backergunge,	,,	22	,,	Nil	South wind; weather rather warm for the time of year. Amun harvest now yield exceptionally good. Prices inclined to rise owing to exportation.							
1	20	Mymensingh,	,,	23	,,	0.06	Weather-cloudy, damp, and cold. Slight rain to-day (23rd). State and prospects of crops favorable.							
1	21	Tipperah,	**	23	,,	Nil	Heavy fogs in mornings. Temperature risen during week. Amun harvest good. Rice now freely exported. Standing crops thriving.							
1	22	Chittagong,	Jan.	27	'80	Nil	Cold-weather crops progressing well. Cholera in cyclone tract abating. Cattle disease continues in some parts of district.							
DIVE.	23	23 Noakholly, " 22 "					Veather—foggy and warm. Cold-weather crops doing well. Amun harvest good Cases of small-pox.							
CHILIAGONG DIVE.	24	Chittagong H Tracts,	ill "	20	,,	Nil	Weather—very cold. Foggy mornings. Mustard being gathered; average outturn anticipated. Tobacco, chillies, and other cold-weather crops doing well. Public health much improved.							
		Hill Tipperah,	"	21	,,	Nil	Weather—seasonable. Misty in morning. Prospects of winter crops (mustard and pulses) fair. Boro paddy being sown.							
REI	HAR													
/		Patna,	Jan.	24	'80	0.09	Weather-seasonable. State and prospects of crops favorable, but more rain would have done good.							
	26	Gya,	,,	24	,,	0.01	Weather—fair and windy. Maximum reading in shade 86.6°. In Jehanabad sub-division a 16-anna crop expected. Rubbee promising, but a good shower of rain wanted. Public health generally good. Health of ploughcattle good.							
	27	Shahabad,	93	24	,,	0.24	Weather—generally cloudy and cold. Slight rain on 23rd will greatly benefit rubbee crops. Fair weather and westerly wind now needed to save standing crops from injury. Isolated cases of small-pox.							
LAKEA DAVE.	28	Durbhunga,	**	24	,,	0.36	Weather—occasionally cloudy. Very slight rain with hailstones on 23rd. Weather very cold with westerly wind. Prospects of rubbee crops continue favorable. Rahur in flower. A slight rise in prices. Public health good.							
	29	Mozufferpore,	,,	24	,,	Nil	Weather—seasonable. Rubbee prospects continue good. Slight rain in Seeta- murhee sub-division beneficial to standing crops.							
1	80	Sarun, Sewan	,,	24	"	0 29 Slight rain.	Weather—cold and cloudy. More or less rain in almost all parts of district. East wind prevailing. Cold-weather crops thriving well. Late rain benefited crops; but more wanted. Prices stationary. Public health good.							
1	31	Chumparun,	,,	24	,,	0.60	Weather—seasonable. State and prospects of crops very good.							
1	32	Monghyr,	Jan.	24	'80	0.15	Slight rain. Weather cold and cloudy with heavy mists. Prospects of crops very good. Everywhere prices falling.							
CANB.	33	Bhagulpore,	,,	24	,,	Nil	Weather—getting warm. Foggy on two or three mornings. Paddy already harvested. Rubbee crops promising, but want a little rain. General health good.							
OHAGUMEURE DIVE.	34	Purneah, Arrareah	,	24	:	0.55	Weather—seasonable. Rain has benefited crops, and a good harvest expected.							
THO /	35	Maldab,	,,	24	"	0.13	Weatherfair and cool, with foggy mornings. Wheat and other crops thriving.  Prospects excellent throughout district. General health good.							
1	86	Sonthal Pergh			1	\	Return not received.							

	No.	District, and date of return.				Rainfall at Sudder Station in inches.								
OB	ISSA	٨,												
ж.	37	Cuttack,	Jan	. 24	'80	Nil	Weather—beginning to be hot. Harvesting of rice, moong, and mustard still continues. Fever and small-pox decreasing. Common rice 18 to 21 seers per rupee.							
BISSA DIVE.	38	Pooree,	,,	22	,,	Nil	Weather—hot for the season. Dulua rice progressing. Other crops doing well.  Mango blossoms sprouting. Prices stationary.							
ORISE	39	Balasore,	,,	23	,,	Nil	Mornings foggy. Days warm Nights not so cold as they should be. Heavy dews at night. South wind blowing. Harvest of rice finished. Rubbee crops in good condition; cutting commenced. Few fatal cases of small-pox and cholera reported.							
сн	ATO	NAGPORE,	Fro	ntie	,									
		Agenc	y.											
	40	Hazareebagh,	Jan	. 23	'80	Nil	Weather—cloudy and windy; symptoms of rain. No rain in interior. Rubbee crops good everywhere except at Ramghur. Public health good. Cattle disease in Pachumba.							
	41	Lohardugga,	*)	24	,,	0.12	Cloudy weather during early part of week ended in a slight storm on Thursday night (22nd), but accompanied by only a slight shower. Since then weather has become cooler. Rain badly wanted for rubbee crops and ploughing. Smallpox still prevalent.							
	42	Singbhoom,	*>	23	,,	Nil	Weather—very warm for the time of year. Rain wanted for cold-weather crops, which are, however, doing well up till now.							
	43	Manbhoom,	"	24	,,	0.40	Wind and heavy rain on 23rd; since which weather has turned cooler. Early part of week dry and less cold. Condition of cold-weather crops (sugarcane wheat, pulses, and oil-seeds) good. One or two cases of cholera and cattle disease in interior.							

Published for general information.

CALCUTTA, STATISTICAL DEPT., The 27th January 1880. A. MACKENZIE,
Secy. to the Govt. of Bengal.

#### Results of the Meteorological Observations taken at the Alipore Observatory from 18th to 24th January 1880.

			barometer	T	вмрвы	TURB.		E	iverom	RTRY.		Wind.			
Month.	Date	Maximum in sun.	Mean pressure barol at 32° Fah.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	l'ew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain	W HATHER.
1880.		0	Inches	0	0	$\Theta$	0	0	Inches	0	0/0			Inches	
Jan.	18th	136.2	29.975	70.9	80.5	15.1	65.4	66.9	0.610	64 6	82	Till 2 A.M. S S W, till noon S. till midnight N N E through S W, W and N W	62	Nil	Morning cloudy rest clear, o, g, & w.
"	19th	136.0	30.018	67.6	79.1	21.2	57:9	64.2	.261	62.3	83	Till 11 A.M. N N E, till 1-15 P.M. E through N E, till 7-30 P. M. W S W through S E, S and S W, till midnight S through S W.	39	***	Day cloudy, night clear, o, f & w.
,,	20th	137.7	29.992	71.2	82.3	17.9	64:4	67 9	*641	66.0	85	Till 9 A.M. S, till 8-30 P.M. chiefly 8 S W, till midnight S by E.	128		Day cloudy, night clear, f & w.
"	21st	134 4	984	71.2	82.3	17:3	65.0	€4:4	.216	59*8	71	Till 4 AM. S by E, till 2-30 PM. N N W through SW, W and NW, till midnight NW.	134		Day cloudy, night clear, & w.
,,	22nd	185.3	30 024	67-2	79:6	21.7	57·3	59.3	• <b>4</b> 04	63.0	63	Till 2-30 A.M. N W, till 9 A.M. W N W, till 2 P.M. N, till 3 P.M. N by N, through N W, till 2 P.M. N by W, till midnight E through N E.	68	***	Morning cloudy, rest clear, & w.
**	23rd	137-6	29-976	69.3	81.6	22 3	59.3	65.5	·587	63.2	82	Till 9-15 A.M. S.S.E. through S.E., till 12-30 P.M. N.N.E. through S.W. and N., till 8 P.M. S. by W. through N and W., till midnight W.S.W. through S.W.	115	***	landy, o, g, d, &
	24th	129 0	80 040	62.2	75.1	13.8	61 3	55.2	*344	48.6	61	Till 3 a.m. W S W, till 2 P.M. N W N through W, and N W, till midnight N W by W.	172	0.02*	Morning cloudy, rest clear, o, g, f w.

<sup>\*</sup> Fall at 8-35 P.M. of 23rd.

		Inches,
The mean pressure of the seven days		30.001
The average pressure of the corresponding period for 24 years S. G. Office		80.007
		0
The mean temperature of the seven days		68 5
The average temperature of the corresponding period for 24 years S. G. Of	fice	68.3
The extreme variation of temperature during the seven days		25.0
The maximum temperature during the seven days		82.3
		%
The mean relative humidity during the seven days	***	75
The average relative humidity of the corresponding period for 24 years S. C	G. Office	70
		Inches.
The total fall of rain from 18th to 24th January 1880	***	0.05
The average fall of the corresponding period for 24 years S. G. Office	***	0.03
The total fall from 1st January to 24th	***	0.05
The average fall of the corresponding period for 24 years S. G. Office		0.17

The mean pressure, temperature, &c., are deduced from the photographic traces of the barograph and thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the Newman's standard No. 86,

formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction and movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground,

o overcast, g gloomy, d drizzling, w dew, f fog.

METEOROLOGICAL OFFICE, INDIA, The 26th January 1880.

HENRY F. BLANFORD, Meteorological Reporter to the Government of India.

# GOVERNMENT OF BENGAL. PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH.

Irrigation Operations for 1879-80. \*\*
Areas leased for Irrigation up to end of December 1879.

1	-	REMARKS.					-00	- 48			4 0 1	10					
	ú	Average of ten previous years of the same period.	Inches.	1			(10 years)	51.8	- Tomas		38-06	39.45		-	*******	1	
RAINFALL.		Inches during 1879-80,	Ins.	59.54	;	:	36.56	35.12	*1	1	51.60	41.72	:	:		- 1	
	RA	Inches during the month.	Inches.	1.45	1		\$ 9.21	0.10								1	
Stripe		Grand total of the considered of previous	Acr. 33.041 10,286	12,889 9,784 23,840	89.931		49,293	6,089	55,382		19,636	7,933	93,174		238,487	1	
		Total	Acr. 41,200 10,859	14,533 10,097 25,406	102,095	89,931	85,215	11,201	96,416	55,382	4,359 15,223 69,556	673	95,852	93,174	291,363	238,487	
	OTAL.	Sugarenne.	Acr. 25	18	63	23:1	:	:	:	i	1,284 6,052 9,328	1,321	18,010	2,52	18,073 2	2,814	
E	GRAND TOTAL	Виррее,	Acr. 984 89	655 217 307	9.252	1,811	:	124	124	:		7,337	24,737 1	17,923	27,113 1		
	5	Khurreef.	Acr. 40,191 10,779	13,860 9,880 25,079	99,780	87,831	85.215	11,077	96,292	25,53		6,383	53,105	72,723	249,177	215,936 19,737	
ANE.	leases.	Leased up to end of December 1879,	Aer. 25	18	63	586		:		1	1,284 6,652 9,333	1,321	18,610	2,528	18,073	\$18	
SUGARCANE	Annual 3	Leased in Decem- ber 1879.	Acr.					i	1		206	13	219	88	213	888	
	1.71	Leased up to end of December 1879.	Acr. 984 89	655 217 307	2,253	1,814		194	124		398 3,121 10,116	6,480	20,119	17,763	22,495	19,577	
	mal Three-year leases. Annual leases.	Lensed in Decem- ber 1879,	Acr.	£ : : :	63	57	:	-			398 3,121 10,116	6,480	20,119	15,821	20,183	15,894	
RUBBER.		Total, inclusive of unexpired leases of previous years,	Acr.								3,347	123	4,618		4,618		
		Leased up to end of December 1879.	Aer	::::	:	:	i	;	;	:	285 3,347	129 857	8,618	160	8,618	169	
		Leased in Decem- ber 1879,	Acr.	1111	:		;	:	:	;	5,337	-	4,618	:	4,618	1	
		Leased up to end of December 1879.	Aer.	1111	:		216	727	53.6	83		3,864	41,685	70.501	12,628	71,333	
	Three-year leases, lesses,	Leased in Decem- ber 1879.	Acr	1111	1	;	:	60	35	00	: : :	1 1	:		35.4	00	
		Total, inclusive of unexpired leases of previous years.	Aer.				52		57		1,915	2,519	11,420		11,432		
Кисявер.		Leased up to end of December 1879.	Aer.				27	:	12		846	2,140	9.198	5,530	9,210	60.00	
Кле	Five-year leases. Thre	Leased in Decem- ber 1879.	Acr.	1111	:	· .	;	1	1	;	-: : :	11	1	:		•	
		Total, inclusive of unexpired leases of previous years.	Acr. 40,191 16,770	18,860 9,880 25,079	99,780		84,987	10,550	99,337					:	195,117		
		Leased up to end of December 1879.	Acr. 2,124 227	1,347	4,688	87,831	36,344	4,394	40,738	54,850		:	:	. ;	45,494,1	257 142,381	
	Five	Leased in Decem- ber 1879.	Aer. 134	89 ::	268	:	174	187	361	957			1:	1	659	257	
N I N	Estimated dis-		e.ft	111.	:	:	-				173	200		1			
TAW WA	THE CANAL.	in cubic feet per second through- out the month.	e. ft. 181:01	194'03 111'00 79'00	:	:	147	66			77.8	801			Acceptance		
Supply	THE	Estimated full dis- charge in cubic feet per second.	e. ft. 1,269	675 1,300 650	:		873	390	1	l	4,342	1,466					
	DISTRICT. CANAL.			Kendrapara Physmoondee High Level Section I Taidunds Taidunds Matchgong		Total of the corresponding month of previous year	pore   Midnapore	th Panchkoorsh	Total of the month	Total of the corresponding month of previous year		and Eastern main	Total of the month	Total of the corresponding month of previous year	Grand total of the month	Grand total of the corresponding month of previ-	
				Cuttack	Total of the month	Total	Midnapore	Howrah	Tota	Total mont	Shahabad	Gya	Tota	Total anouth	Grand	Grand sponds ous ye	
CIRCLE.			Orissa				South- Western				Some				***		

The 27th January 1880.

D. B. Horn,
Asst. Secy. to the Govt. of Bengal,
P. W. Dept., Irrigation Branch.

#### Weekly Return of Traffic Receipts on Indian Railways.

## EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 17th January 1880 on 1,507; miles open.

	C	COACHING TRAP	FIG.	MERCHANDI	SE AND MINERAL TRAPPIC.		TRA	IN MILES	RUN.
	No. of passen- gers.	Coaching	receipts	Weight carried.	Receipts.	TOTAL TRAFFIC RECEIPTS.	Coach-	Merchan- dise.	Total.
rotal traffic for the period	154,856	Rs. A. P. 2,51,157 15 0	£ s. d. 23,022 16 2	Mds. s. 13,97,679 20	Rs. A. P. & s. d -6,95.872 5 0 55,538 5 1	857,030 4 0	52,2023	100,3901	152,593
For previous 10 days of half- year	199,663	166 10 1 5,43,651 15 0	15 5 6 31,501 8 7	22,11,341 0	9,27,636 13 0 85,023 7	568 9 8 5 12,71,289 12 0	74,8233	157,438}	231,761
Total for 2 weeks COMPARISON.	854,519	5,94,809 14 0	54,524 4 9	36,09,020 20	15,33,509 2 0 140,571 13	5 21,28,319 0 0	126,5253	257,829	384,3541
otal for corresponding week of provious year Per name of railway, correspond- ing week of previous year	157,247	2,40,885 4 5 159 13 1	22,081 2 11 14 13 0		6,27,546 11 9 57,525 2 410 5 8 38 3			116,500	170,854
fotal to corresponding date of previous year	356,4485			Sec				312,130	449,353

#### EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 17th January 1880 on 1713 miles open.

<i>f</i> -1	, ,	COACHING	TR	FF	IC.	Mв	всн	ANDIS	SE AND M	INE	RAI	TRAFF	IC.		To	tal
	Number of passengers.	Cor	achi	ng	receipts.	Weight o	arri	ed.		Re	ceip	ots.			recei	pts.
		Rs.	A. 3		£ s. d.	7	Ids.	s.	Rs.	Δ.	P.	£	8.	d.		8.
otal traffic for the week	38,197 241 57,117	27,475 159 45,865	15	6	$\begin{array}{c} 2,518 & 10 & 10 \\ 14 & 13 & 3 \\ 4,204 & 5 & 10 \end{array}$		2,783 1,238 9,130	36	38,699 225 54,336	5	2	3,547 20 4,980	13	1	6,065 35 9,185	6
Total for 3 weeks	95,314	73,840	0	0	6,722 16 8	5,0	1,913	0	93,035	0	0	8,528	4	2	15,251	0 7
COMPARISON.				T)		ALL PROPERTY AND PERSONS ASSESSMENT				na nanann			-	-	-	
total for corresponding week of previous year Per mile of railway, corresponding week of previous year Total to corresponding date of previous year	39,237 } 247 93,074	30,589 192 71,793	11	1	2,804 1 8 17 13 3 6,581 1 7		1,736 1,144 9,416	4 32	33,326 209 79,591	14	10	3,054 19 6,470	4	11	5,858 36 13,051	18

#### BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

No. 49.

	garage (1974)		RECEIPTS FOR	WEEK ENDING	TOTAL RECEI	PTS PROM 1ST UARY		Total
Latest return received.	Name of Railway.	Length open.	7th Dec. 1878.	6th Dec. 1879.	To 7th Dec. 1878.	To 6th Dec. 1879.	Total increase in 1879.	decrease in 1879.
		Miles.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
3th December 1879 3th ditto 1880 3th January 1880 3th December 1879 3th ditto "	Northern Bengal Tirhoot Calcutta and South-Eastern Naihati Patna and Gya	230 82 28 271 57	24,348 0 0 10,630 0 0 2,230 0 0 1,627 0 0	37,772 0 0 9,833 0 0 2,204 0 0 1,752 0 0 9,374 0 0	8,34,597 0 0 4,05,686 0 0 1,17,524 0 0 84,236 0 0	12,07,275 0 0 4,11,778 0 0 1,22,666 0 0 85,296 0 0 2,01,659 0 0	3,72,678 0 0 6,092 0 0 5,142 0 0 1,060 0 0 2,01,659 0 0	
	Total	4241	38,895 0 0	60,435 0 0	14,42,043 0 0	20,28,674 0 0	5,86,631 0 0	

#### BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

No. 50.

			RECEIPTS FOR	WEEK ENDING		PTS FROM 1ST CARY	Total increase	Total
Latest return received.	Name of Eailway.	Length open.	14th December 1878.	13th December 1879.	To 14th December 1878.	To 13th Decem- ber 1879.	in 1879.	decrease in 1879.
13th December 1879 13th ditto 13th ditto 13rd January 1880 20th December 1879 20th ditto	Calcutta and South-Eastern	Miles.  230 82 28 27 27 57	Rs. A. P.  20,024 0 0 16,216 0 0 2,456 0 0 1,701 0 0	Rs. A P.  34.132 0 0 10,236 0 0 1,974 0 0 1,852 0 0 8,331 0 0	Rs. A. P.  8,60,621 0 0 4,21,901 0 0 1,10,980 0 0 85,937 0 0	Rs. A. P. 12,41,408 0 0 4,22,015 0 0 1,24,640 0 0 87,148 0 0 2,09,990 0 0	Rs. A. P. 3,80,787 0 0 114 0 0 4,000 0 0 1,211 0 0 2,00,990 0 0	Rs. A. P
	Total	4211	46,897 0 0	56,525 0 0	14,88,439 0 0	20,85,201 0 0	5,96,759 0 0	etrica .



## SUPPLEMENT TO

# The Calcutta Gazette.

WEDNESDAY, FEBRUARY 4, 1880.

## OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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Bengal during the month of December 1879	94	Weekly return of Traffic receipts on Indian Railways	18

## Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 31st January 1880.

N	io.	District, a		te of	to be like to	Rainfall at Sudder Station in inches.	the weather, state and reconnects of the
BEN	(GA)	L. Western 1	Distric	ota.			
1	1	Burdwan,	Jan.	31	'80	Nil	Weather—fair and cool. Rubbee crops generally good, except in Burdwan No rain this cold weather, and ploughing will be difficult.
DIVE.	2	Bankoora,		31		Nil	Weather—warmer than usual till rain fell. Prospects of minor spring crops promising; average outturn expected. Recent rain beneficial in parts. General
DURDINAN	3	Beerbhoom,	. "	31		Nil	Weather—seasonable. Cold-weather crops in good condition.
	4	Midnapore,		31		Nil	Weather—seasonable. State and prospects of crops favorable,
	5	Hooghly,		31			Wind from south. Winter crops promising well. General health good, but cases of small-pox still in Serampore sub-division.
1		Howrah,	"	31	,,	Nil	Weather—seasonable. State and prospects of crops favorable. A good deal of

,	io.	District and		e of	8	Rainfall tSudder station in inches.	
BE	NGA	L - (Continued.)	)				
		Central Di	stric	ets.			
	6	24-Pergunnahs,	Jan	. 31	'80	Nil	Slight cold. Hot weather fast setting in. Pulses and peas being gathered. Sporadic cholera in Bussirhat.
DIVE.	7	Nuddea, Choondanga Bongong	,,	31		Nil 0.08 0.06	Weather—morning and evening cold, warm during daytime, clear and sunshiny.  Prospects of winter crops fair.
PRESIDENCY	8	Jessore, Jhenida Magura Narail Bagirhat	*	31	,,	Nil 0·17 1·04 1·40 0·22	Weather—getting hot for time of year. Rain done good where fallen. Prospects of winter crops continue good. Amun harvest practically ended. Health good.
	9	Moorshedabad,	17	31	,,	Nil	Weather—seasonable. Prospects of crops good. Fever in a mitigated form still in Burwa and Dowlutabad police stations. Cholera not yet disappeared from Kaliangunge police station.
1	10	Dinagepore,	Jan	30	'80	Nil	Weather—seasonable. Winter rice all cut; outturn over fourteen annas.  Mustard being reaped. Other standing crops doing well. Small-pox and cholera in places.
DIVE.		Rajshahye.	31	31	,,	Nil	Weather—cool and fair. Paddy harvesting completed; outturn more than an average. Rubbee crops promising Common rice 16 seers ber rupee.
HAR I	12	Rungpore, Kurigram	,,	30	,,	0·10 0·29	Weather—seasonable. State and prospects of winter crops good. Public health good.
оон В	13	Bogra,	29	31		Nil	Weather—seasonable. State and prospects of crops very good. A few cases of cholera in Panchbibi and Dhunats
IND CO	14	Pubna,	.,	31	,,	Nil	Weather—clear and getting warmer. Prospects of spring crops good, and public health good. Chotera almost ceased.
Валенатив амр Сооби Венав	15	Darjeeling,	,,	31	23	Nil	Weather—clear sunshine during day, but cold in morning and evening. Hai- manti dhan harvested. Mustard ripening. Condition of wheat and barley good. Land being prepared for bhadoi crops.
RAJ	16	Julpigoree,	**	31	,,	Nil	Bright sunny weather, perceptibly warmer. Head-quarter crop report not received. In Fallacotta two annas of cotton and two annas of mustard gathered.
	*	Cooch Behar, Dinhatta Mathabhang Meckligung		30	,,	Nil 0·74 0·03 0·28	Weather—clear and rather warm. Prospects of wheat, pulses, and tobacco-continue good. Fields being ploughed for early rice. Rice Rs. 2 a maund. Small-pox raging in some talooks.
	sk.	Eastern Di	stric	ots.			
	17	Dacea, J Manickgunge ending 29 Moonshigung ending 28	e (fo	an.) or we	eek	0.9 0.22 0.52	Weather—seasonable. State and prospects of crops good.
DIVE.	18	Furreedpore,	,,	31	"	Nil	Weather—seasonable. State and prospects of crops good.
DACCA DIVE.	19	Backergunge,	"	29	,,	0.36	Slight rain general over district. Weather cooler since rain. Prospects excellent.
	20	Mymensingh,	,,	30		0.84	Weather—clear and favorable. State and prospects of crops very favorable.
	21	Tipperah, Brahmunber Chandpore	riah	30	"	0·30 0·20 0·50	Rain early in week. Weather since warm. Mustard and sugarcane being gathered.  Boro rice and other spring crops doing well.
V. K.W.	22	Chittagong,	Feb.	3	'80	Nil	Weather—fair. State of cold-weather crops good. Cholera disappearing in south. Cattle disease still prevails in some parts of Cox's Bazar sub-division.
CRITTAGONG DIVE.	23	Noakholly, J	lan.	29	.,	0.15	Weather—shower on 24th; otherwise fair. Mornings cool. Rubbee crops doing well.
CHITTAG	24	Chittagong Hill Tracts,	1				Report not received.
		Hill Tipperah,	,,	28	,,	0.25	Weather—seasonably cold. Prospects of winter crops (pulses, chillies,) &c., fair. Public health good.

N	0.	District, ar		te of		Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and state of health at date.
вкі	LAE						
1	25	Patna,	Jan.	31	'80	Nil	Weather—seasonable. Rain wanted for rubbee crops.
	26	Gya,	) <b>*</b> *	31	"	Nil	Weather—fair and windy. Maximum reading in shade 798°. In Nowada sub- division dhan almost cut; prospects of rubbee crops good. In Jehanabad sub-division rubbee in good condition, but would be benefitted by a shower of rain. Public health good.
IVN.	27	Shubabad,	*	31		Nil	Weather—cold and cloudy most part of week. Prospects of rubbee excellent, Small-pox still continues. Prices stationary.
PATRA DIVR.	28	Durbhunga,	"	31		Nil	Weather—sensonable. Rubbee crops continue to progress favorably. Mustard in some places being reaped. Prices stationary. Public health good.
d	29	Mozufferpore, Hajeepore Lalgunge		31		Nil 0 1 0 4	Weather—seasonable. Rubbee crops in excellent condition. Mango tree beginning to flower. Public health good.
1	30	Sarun,		.31	,,	Nil	Weather—cold and bracing; west wind prevailing. Cold-weather crops doing well. Prices stationary. Public health good.
1	31	Chemparun,	,,	31	9	Nil	Weather—fine, with east and west wind. In north of district rain would do good, especially to poppy. All prospects good. Health good, except in a few villages where small-pox prevails.
1	32	Monghyr, Beguserai		31	<b>'</b> 80	Nil 0·11	Weather—cloudy and warm. Prospects of crops excellent, but rain would do no harm. Health good.
DIVE.	33	Bhagulpore,		31	,,	Nil	Weather-clear and seasonably cold; latterly getting warm. Prospects of rubbee crops good. General health good.
ORB	34	Purneah,	,,,	31	,,	Nil	Weather—seasonable. Prospects of crops continue good.
Buagureous Hayr.	35	Middah,	"	31	,	Nil	Weather—fine, though a little too warm for the time of year. Cold-weather crops thriving. Price of course rice gone down a little. Exportation slack, Public health good.
1	36	Sonthal Pergh	S, ,,	31	99	Nil	Weather-cold and fine. State and prospects of crops good.
ORI	SSA						
1	37	Cuttack,	Jan	. 31	'80	Nil	Weather—seasonable. Rice harvest completed. $Dalna$ crop progressing well. Small-pox still reported. Common rice $18\frac{0}{16}$ to 21 seers per rupee.
ORISSA DAVN.	38	Pooree,	"	29	,,	Nil	Weather—seasonable. Sarad still being reaped. State of dalua crop good. Sugarcane still being pressed. Cold-weather crops continue well. State of public health not good; fever still prevails. A few cases of small-pox both in Sudder and Khoorda sub-divisions. Common rice 19 to 26 seers per rupee.
	89	Balasore,	"	30	**	Nil	Weather—seasonable, with cold nights and north wind Good rain in north of district. Threshing and storing of paddy progresses. Harvesting of early rubbee crops continues. Other crops ripening. Scattered cases of small-pox and cholera; otherwise public health fair.
CHO	ATC	NAGPORE.					
		South-Wes		ntier			
	40	Hazareebagh,		. 30	'80	0.10	Weather—cool and seasonable. Showers at Sumariah, Ramghur, Koderma, and Gawan. Rubbee crops promising; more rain would do good. Small-pox at Chowparan; health otherwise good.
, F	41	Lohardugga,		.31	n	Nil	Weather-bright and cold. Rain much wanted for rubbee crops and for ploughing. Small-pox still prevalent.
	42	Singbhoom,		30	,,	Nil	Weather-cooler during week. Cold-weather crops in good condition. Health of district good.
	43	Manbhoom,		31	10	Nil	Weather—fine and cold. Rubbes harvest progressing, and crops turning out fair.  Public health generally good.

Published for general information.

CALCUTTA, STATISTICAL DEPT., The 3rd February 1880. A. Mackenzie, Secy. to the Govt. of Bengal. The following Statement shows the Quantities of the principal Staples of Traffic imported into Calcutta from the industry during the month of November 1879.

IMPORTS INTO CALCUTTA.

		1			FOO	D-GRAI	NS.			FIBROUS 1	PRODUCTS.	OILS	EEDS.				8
Whence im	ported.		Rice	AND PAI	DDY.		Gram	Other	Tatal.		Gunny	Linseed.	Mustard	Tea, Indian.	Cotton,	Silk,	Refine
			Rice.	Paddy.	Total (in rice).	Wheat.	and pulses.	food- grains.	Total.	Jute, raw.	bags.	Dinsocu.	seed.				Konnik
BENGA	L.	i	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds
urdwan	100		50,090	11,230	57,109		389	1,663	59,161	1,200	40,600		608	445		37 8	3
eerbhoom			78.581	42.051	78,581 $71,397$		172		78,753 71,397	1.380	250		*****		******	578	*****
lidnapore			44,865 38,295	43,251 3,954	40,766	4.677	3,817	515	49,775	1,04,781	373,290	20,363	6,351	rom	1,130	112	5,6
-Pergunnahs			71,341	23,919	86,290	42	8	961	86,340 23,709	88,043 29,334	203,710 1,025	453	158	100.000	389 188	349	4,8 2,3
uddea	***		1,722 4,425		4,425	4,580	16,446 225	201	4,650	13,948	1,020	100		******		*****	
essore oorshedabad			4,578		4,578	3,221	2,868	416	11.083	2,307		1,830	1,922	*****		64	*****
nagepore			2,703		2,703		111411		2,703 5,775	8,715 32,451	303,200					*****	*****
ajshahyo	***		*****		******	883	4,892			83,619	22,975			16	8		
ungpore	***		1,910		1,910				1,910	459				******	*****		
ubna			550		550		*****		550	3,97,378 9,374	203,650 8,575	******		8,257		******	*****
ilpigoree	***		4,206		4,206		150	7	4,363	3,35,883	775						****
acca			1,246		1,246	458	735		2,439	2,70,722	875	833				*****	
ackergunge			1,22,895	200	1,23,020		125		1,23,145	51,559						******	*****
ymensingh			\$50		350		******		350	01,040				*****	*****	*****	****
pperah		***	15,932		15,932				15,932					919			****
oakholly			14,005	400	14,255		*****		14,255			111111		*** 1.00		******	****
Total of Ber	igal		4,57,194	82,954	5,09,040	13,861	29,827	3,562	5,56,290	14,31,353	1,158,925	27,380	9,039	9,637	1,715	1,143	12,9
Вена	2.	1															
tna			342		342	42,054	56,263	4,842	1,03.501			46,886	9,341	******	500		1,5
ahabad			******		*****	13,039	, 1,569	******	14,608			1,794 6,315	825	******	*****	*****	1,0
nzufferpore		***	******			2,266		451	2,717			29,740	6,193		*****		****
urbhunga						19,168	5,403	56 t	25,130			6,990	695 3,210	******		*****	2
onghyr			21		21 2,552	27,263	28,989 2,326	674 130	56,947 33,471			10,555	3,697	******		*****	*****
hagulpore			2,552		30	28,463 5,367	20020	533	5,930	*****	20,650	1,965	5,543	1,004		*****	****
arneah aldah	***	1	2,129		2,129	8,847	0.000	50	11,026	13,560		791			******	19	*****
onthal Pergun			557		587	2,548	2,369	1,057	0.561	72 500	90.650	1,15,217	20,494	1,094	500	19	1,8
Total of Be			5,661		5,661	1,49,015	96,919	8,301	2,59,896	13,560	20,650	1,10,217	LUYEUS	1,003	500	40	7,0
OEISS			813	7 690	1,826		545		2,371	190							
uttack alasore			53	1,620 22,376	14,038		261		14,299	517							
Total of Or	issa		866	28,996	15,864		806		16,670	707				,		******	2000
CHOTA NAC	PORR.																
azaribagh	ž		305 1,849		303 1,849		42	956	305 2,847					125			
otal of Chota		-	2,154		2,154		42	956	3,152			·		125			
and total of	supplie	8)	4,65,875	1,00,950	5,32,719	1,62,876	1,27,594	12,819	8,35,008	14,45,620	1,179,575	1,42,597	38,533	10,856	2,215	1,162	14,7
rom the P inder the Lieu lovernor of I	Bengal.	1	4,00,013	2,00,000						-							
OTHER PROV	INCES.		250		250		38		288	5,557			146	48,114		8	
rth-Western	Provinc	es	365		365	1,48,073	6,269	8,282	1,62,989			13,115	47,416	243	18,452		2,3
njab			3		3	28,253	15,949		44,205				1,061	1,664	371	*****	*****
ritral Provinc	es	***				1		11	11			*****			841		ECHS COSTS
jpootana Stat							3		3				****	1	3,052	*****	1,5
adras			22		22		63 51		-85 51		2,500				3,003	*****	4
ritish Burmah			322		322	5,276	2,367	15	7,980		11,800			432	396	258	
brow minnou					***	-		03.308	-	14,51,177	1,194,025†	1,55,712	87,156	61,310	29,488	1,428	19,1
her places			4,66,837	1,06,950	5,33,681	3,44,478	1,52,334	21.127	10,51,620								

<sup>\*</sup> One maund of paddy is equivalent to 25 seers of rice.

† Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of November 1879 was as follows:

EXPORTED FROM CALCUTTA-	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Ro Indian Ports, viz.— Bombay Other ports in Bombay Madras Other ports in Madras British Burmah Other Indian ports Pondicherry	1,13,176  14,916 425	69	1,13,219  14,916 428	677 6,967 258 5,571 3 468	6,084 32,844 3,688 2,544 92 150	4 19 4	1,19,960 39,311 18,866 8,562 99 618	1,296  231	825,214 54,850 21,700 114,500 722,400 308,780 15,000		41	21 2 2 17	g	403 2 8 40	1,300 181 637
Total of interportal }	1,28,520	69	1,28,563	13,944	44,882	27	1,87,416	1,527	2,062,444		41	45	0	453	6,391
To Foreign Ports— United Kingdom Other foreign ports	\$9,141 2,62,803	8	39,141 2,62,808	2,44,536 14,485	3,219 27,846	3,992	2,87,198 3,09,131	9,63,490 1,78,614	185,200 4,307,330	1,47,233 85,248	10,984	67,686 202	2,430 9,282	228 358	7
Total of foreign trade	3,01,944	8	3,01,949	2,59,321	31,065	3,992	5,96,327	11,37,194	4,442,530	2,32,481	11,018	67,888	11,712	586	71
Grand total of \$1879 Exports in Nov. \$1878	4,30,464 10,24,548	77 1,989			75,947 1,10,945	4,019 15,021	7,83,743 13,90,440	11,38,631 19,33,555	6,504,974 4,307,382	2,32,481 3,63,580	11,059 1,40,589	67,933 92,780	11,721 33,426	1,039	6,37 13,24

The following Statement shows the several Routes followed by the Trade in the principal Staples of Traffic imported into Calcutta during the month of November 1879.

IMPORTS INTO CALCUTTA.

		F	OOD-GRAI	INS.		FIBROUS	PRODUCTS.	OIL	SEEDs.	Tea.			Sug	AR.
Specification of routes.	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food- grains.	Jute,	Gunny bags.	Linseed.	Mustard seed.	Indian.	Cotton, raw.	Silk,	Refined.	Unre- fined.
y country boats	Mds. 2,60,764  1,30,101 6,057 53,570 16,345	Mds. 87,504  10,950 8,496	Mds. 1,17,083 2,26,606 748 41	Mds. 72,702 38 71,425 7,235 8 926	Mds. 13,509  7,565 38	M 4s. 6.86,461 1,85,476 4,96,764 81,769 707	No. 929,590  237,875 12,110 14,450	Mds. 1,02,981 49,864 2,809 58	Mds. 32,338 146 54,664	Mds. 42,159 3,571 14,228	Mds. 6,598 8 17,154  201 5,619	Mds, 592 8 117 349 104 258	Mds, 11,672 1,926 3,478 2,064	Mds. 43,047 3,995 2,339 2,518
rand total of Imports 1979 in November 1878	4,66,837 9,24,187	1,06,950 98,594	3,44,478 2,02,687	1,52,334 1,17,835	21,127 20,719	14,51,177 15,25,084	1,194,025 1,701,357	2,07,333	87,156 85,039	61,310 63,975	29,488 58,537	1,428 1,145	19,140 13,026	51,90 33,82

The following Statement shows the Quantities, Values, and Numbers of the principal Staples of Traffic exported inland from Calcutta during the month of November 1879.

EXPORTS FROM CALCUTTA.

Whi	ither e	porte	d.		Cotton piece- goods (European).	Cotton twist (European)	Salt.	Gunny-bags.	Whither exported.	Cotton piece- goods (Eufopean).	Cotton twist (European).	Salt.	Gunny-bags.
	BENG	AL.			Rs.	Mds.	Mds.	No.	Chota Nagpore.	Rs.	Mds.	Mds.	No.
urdwan eerbhoom		ï	<i>::</i>		3,24,466 1,48,960 16,500	1,402 632 612	34,167 12,172 1,295	31,025 45,570 6,573	Hazaribagh	94,800 1,08,640	189	1,267 2,286	8.115 3,780
looghly					76,848 2,03,239	591 811	4,295 14,849	73,390 269,291	Total of Chota Nagpore	2,03,440	192	3,553	6,895
Pergunnah uddea essore loorshedaba	d	***			7,60,595 29,064 1,41,440 2,22,000	2,637 434 39 88	12,051 17,596 9,018 3,710	4,004 7,150 14,340 4,000	Grand total of supplies into the provinces under the Lieuten-ant-Governor of Bengal.	86,09,946	16,211	4,78,790	1,035,952
inagepore ajshahye ungpore ogra	=======================================	***			1,37,360 4,41,310 1,12,620 4,24,640	28 15 25 510	2,850 5,250 200 62,622	350	OTHER PROVINCES. Assam North-Western Provinces	6,20,230 37,39,840	847 2,241	30,290 5,736	237,910
ubna ulpigoree acea urreedpore		***			2,18,720 7,80,660 3,04,410 3,05,110	106 1,776 1,247 490	1,700 43,270 29,461 13,455	750	Central Provinces Rajpootana States Nizum's Territory	23,98,480 1,03,120 1,72,160 320	1,743 298 12		168,840 68,870 525
ackergunge lymensing ipperah hittagong					7,985 1,01,580	31 191 1,040	17,100 4,651 5,820	236,550	Madras British Burmah	43,058 20,269 1,72,254	11 472 1,072	1	880,084 136,200 722,400 15,000
oskholly	Total	of Be	ngal		15,879 47,73,366	12,815	2,96,032	696,827	Grand total of Exports (1879 1878	2,10,048 1,60,89,720 1,28,41,283	23,016 20,686	5,327 5,20,144 6,11,622	4,371,136 7,626,897
aina lahabad lezufferpore	Випа	n. 	 		14,75,840 3,94,800 1,93,040 3,65,520	273 103 	91,103 15,224 4,995 20,903	130,690 10,570 3,810 44,205	The Sea-borne Trade of Calcutta in was as follows:—	these staples	during the a	nonth of	6,831,867  November 1879
arbhungs an amparun ashyr	=		***		2,23,680	112	11,100 500 6,478	17,450	IMPORTED INTO CALCUTTA— From Foreign Ports—	Rs.*	Mds.	Mds.	No.
agulpore meah					2,66,320 3,29,840	138 307	15,214 1,850 4,475	20,770 1,475 1,325	United Kingdom Other foreign ports	1,19,11,361 14,169	15,037	4,63,636 1,00,812	11,800
idah ithal Pergu	nnahs			***	2,27,280	327	7,863	9,730	Total of foreign trade	1,19,25,530	15,046	5,73,448	11,806
\h	Total	of B	ohar	***	34,76,320	1,490	1,79,205	259,250	From Indian Ports— Bombay  Madras  Other ports in Madras	\$1,520 11,184 300	5,532 25	35,007	150
ttack oree	=				93,945 1,800 61,075	1,091		41,030 31,950	British Burmah Other Indian ports	156 465	5		2,500
lasore		***		•••	01,075	1,001		31,000	Total of interportal trade	43,625	5,562	35,007	2,650
1	Total	of O	rissa	***	1,56,820	1,714		72,980	Grand total of Imports (1879 (1878 (1878	1,19,69,135 77,71,159	20,608 18,327	6,08,455 7,07,048	14,450 94,490

he following Statement shows the several Routes followed by the Trade in the principal Staples of Traffic exported from . Calcutta during the month of November 1879.

			SPI	CIPI	OITA	N OF R	опти							Cotton piece- guous (European).	Cotton twist (European).	Salt.	Gunny-bags
1 100 1													1	Rs.	Mds.	Mds.	No.
antry boats	***	***		***	***	***	***		***	•••	***	***		2,01,057	4,719	2,73,267	461,494
er steamers	***	***	***	444	***	484	***		***	***	***	***	***	9,14,320 1,00,58,560	1,013 8,121	7,030 1,84,812	781,710
Eastern Be		***	***	***	***		***	***		***	***	***	770	33,48,520	4,697	49,864	197,110
id '	***	***	***	***	***	***	***	***	***	***	***	***	***	2,13,849	4,697 1,017 3,449	5,170	3,719
* *** ***	***	***	***	***	***	***	***	***	***	***	***	***		4,58,414	3,449	1	6,429,975
				0	rand	total of	Exp	orts in	Nov	ember	{1	879 878		1,60,89,720 1,28,41,283	23,016 20,686	5,20,144 6,11,622	7,626,897 6,801,867

\* As per tariff declaration value.

STATISTICAL DEPARTMENT, The 2nd February 1880. A. Mackenzie, Secy. to the Goot. of Bengal.

Abstract of Observations as received in the Office of the Meteorological Reporter to the Government of Bengal during the month of December 1879. N. B.—The Barometrio data are reduced for temperatures and not for height above sea-level.

	Turk,	BA	BAROMETER.	SIR.	-		RADIA	RADIATION THERMOMETER.	HERM	OME	FER.		-				TEM	ERAT	FEMPERATURE OF	AIR	-			A	VAPOUR TENSION.	T.F.	2	VSION.		HOMIT	HOME
	-level-		MHAN OF	-			SOLAR.				GROSS.			· ə ż			N N	40 NYS	Hre	HIGHEST MAX.	4	L	LOWEST MIN.	,		MEAN	AM OF	4		THE PERSON NAMED OF	MHANOF
STATIONS.	F98 940	1	-	1	1	ni .xa		Max.		ai .ai	N	Min.	.xam	յր բոսը	.nim		1	9							.saiitii	*8.	*8	el agenta a a a a a	The second second second	.sminin	'9.
	da tilgioB	Меав.	втиод 01	Range	Мезв.	Above m	Day.	0	Mean.	Below m	Day.	0	Mean of	plean da	To nash.	Menn.	втиой ОД	16 hours	Day.	0	Absolute	Da)	0	Мевв.	п шотд	10 pont	16 hou	Иевп			From r
			*00 00 O		1	1		04h 136	138.1 43.4	1.9		27th 38-0	0 74.4	52.9	- 63	5 60.7	26.3	3 71.5	2 2nd	pq 28-0	-0 34.9		29th 43	43.1	988.	198	486	: .	-	16	90
sangor	333	50.694 58	59-766 29-609					-	10			3 :		-	_		_		•			:		_	:	:			: 1		:00
1	2010	19-417 93	F4:9 23.378					-	7.8 23.		-	th 35		17								9 27th			1.0				- 0	_	9 6
1 1	126	18.63	03		1123 116	116.5 40.7	-		136-9 47.7	3.3	31st 31st	181 39-7	73.0	24.8	53.0	0 63-4		4 71.6	9 10th	h 77.6		28.1 23.0		49.5	.370					88	69 69
1	166-32	.851					0		3.8 45.		3	23rd 39.6		183			0.49								÷ 5	188 -361	298.	Ç .	ão de	4	48
Fatna	376	.680	9. 914.	. 611				Marine Control	50		:	:	75.6	98		9 63-7						39.0'8, 23, &		:	Ñ				5		
		20 010 90	001 97-0						5.6 36.5			h 28.		53	er degrees de									0.01	.258	259	243	:	200	anandrosses	67 58
ngn	68.45	29.929 30	30.010 29-871		139 159.5	9.5 62.7		1st 144	144.7 52.0	9 3.1		22nd 45.8	9 76.9	21.7	55.1	1 64.5	69-7	7 734	4 16th 3 25th	h 81.5	32.50	2 21, 25, &		49.3	, è				86	-	69
1		668.	9. 9/8.					mingrow	1		anima y													40.0	.409	.483	3 .487		83	and design	63
Jessore	83.3	.957 30			118 134.5	1.2 9.1		15th 149	149.2 43.5	13.5		22nd 35.5		n agent to	55.7	7 66.0			7 15th		32.6			: :	0440			50	6		67 68
	35	216.	. 010.		121 141			-	2-0 43-6			th 85°					-		•						.412	119. 21	1 .473		833	-	
Silchar	87.4	.803 28					8	-	6.9		_				OF THE PERSON				4 1st					9.	7.				20		
Chittagong	-	119.					•	+	:		-			-	n. snano		-					88 88 88				007.	0		. 6		and the second
		99-977 30			03			-	2-1 45-		_	th 38		-					16,0				99 mgg	59.1 -478	78 .433			0. 76	88		
Saugor Island	-	*993			200			-	2.8 50.8	7.4	-	Set 37.4		-	62.1				:								3 .413	::	80		
'attack	80	-921 29	29.981	. 862	1119 136 1	8.5 67.4		15th 146	146.0		-		76.1	19.5			71.9	73.0	5 29th	h 83.1	.1 33.1		24th 50	20.0	420	20 470		BO	85		56 56
False Foint	31 34	.951							8.29 9.8	8 11.6	3 24th	th 48.9			69.5	73.5			ď								4 .637		8		-0.000
Akvab	20.44	-884 29				34		-	F. 0	;	!	:	200	-					a .											*	-
	01.10								3.6 73.4			13th 71 2	0.98	8.7	77.3	3 79.7	82.7	7 89.2	2 Sand	98.8	.8 16.9		23rd 71	71.9	787	886	877	- 15	30 00	88	78 77
Port blair	01 10	797	.838	756	-083 142-2	2.5		24th 160	160.7 70.5	9.9	_	th 69.		άο	75 8		-												}	auten	_

CALCUITA (ALIPORE).

68.0 Mean humidity of 24 years 64.2 Ditto ditto of 1879 3.8 Defect in 1879 ... 111

111

... 29-977 Mean temperature of 24 years ... 29-977 Ditto ditto of 1879 ... 050 Delect in 1879 ... ...

Mean barometric pressure of 24 years
Ditto ditto of 1879
Defect in 1879 ... ...

: : :

Meteorological Reporter to the Govt. of Bengal. JOHN ELIOT,

... 0.23 ... 0.41 ... 0.18

... 71 Mean rainfall of 48 years ... 71 Actual fall in 1879 ... ... Nil Excess in 1879 ...

The 31st January 1880. CALCUTTA,

Mean Pressures and Temperatures of the preceding Table reduced to sea-level, with Anemometric Results and Cloud Observations.

	pres-	re re-							W	IND.					
STATIONS.	Mean barometric sure reduced to level.	Mean temperature duced to sea-level.	North.	North-east,	East,	South-east.	South,	South-west,	West,	North-west,	Variable.	Calm,	Percentage and resultant.	Mean velocity daily.	Mean clouds.
Seebsaugor Goalpars Darjeeling Parneah Durbhunga Patna Gya Hazareebagh Hazareebagh Berhampore Burdwan Jessore Dacca Silchar Chittazong Demagiri Alipore Saugor Island Cuttack False Point Vizagapatam Akyab Port Blair Naucowry	30°045 	61.4  63.7 63.8 61.8 64.6 66.3 66.1 68.9 67.6 69.5  64.2 66.1 68.4 64.7 73.6 73.8 73.8 78.9	1 8 2 1 11 26 33 46 16 5 5 6 67 81 1 24 9 11 2	25  7 2 1  6 4 3 1 1 3 11 17 8 19 222 22 22 16 38 14 39 39 14 39 14 39 16 39 17 39 18 39 18 39 18 39 18 39 39 39 39 39 39 39 39 39 39 39 39 39	28  1 2 4 2 20 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	15 2	25 14 1 2 1 1 10 2 2 8 1 5 1 6 1 3	11 19 39 47 12 6 3 2 2 6 3 11 12 6 1	 1 20 4 2 13 33 20 16 11 13 1 16 23 9 1 5 5 11 		5 10 10 37 22 22 8 1 1 2 27 22	82 N 71° E  68 8 41° W  53 N 44° W  80 S 85° W  77 N 88° W  66 N 65° W  65 N 13° W  65 N 13° W  47 N 28° W  50 N 50° W  77 N 3° E  68 N 26° E  70 N 71° E  81 N 6° E  74 N 63° E  74 N 63° E	29·0 28·6 24·5 45·5 11·8 20·7 93·3 48·8 52·4 35·3 49·4 43·5  72·4 153·3 29·8 183·5 54·9 20·1 154·1	2:60 1:34 1:71 1:71 1:71 1:71 1:71 1:71 1:71 1:7

#### NOTE.

Barometric Pressure.—The pressures in column 2 of the above table for all stations below 500 feet are reduced from those given in column 3 of the table on the previous page, by adding the weight of a column of air of the temperatures given in column 18. For stations above 500 feet elevation the reduction is made by Captain Allan Cunningham's table, "Prof., Papers on Indian Engineering, No. CXIII." The temperatures at the sea-level are taken from column 3 of the above table.

Temperature.—The temperatures in column 3 are reduced from those in column 18 on the preceding page, by adding 1° Fahrenheit for every 450 feet.

Wind Resultant.—The resultant wind direction and its comparative predominance are calculated from the whole number of wind observations recorded during the month. The relative predominance in the direction of the resultant is given as a percentage of the whole number of observations. The direction is computed in the usual way by Lambert's formula.

Cloud.—This column gives the average proportion of clouded sky, a cloudless sky being indicated by o, and one completely overcast by 1o.

The above, being all comparable, afford the data for constructing a meteorological chart for the month, which will show the isobaric and isothermal lines and the resultant wind directions, which last may be represented by arrows of varying length, proportioned to the prevalence of the wind. To these may be added the rainfall from the previous tables.

CALCUTTA, The 31st January 1880. John Eliot,

Meteorological Reporter to the Gout. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 25th to 31st January 1880.

			barometer	T	RMPER	TURE.		E	iyerom	ETRY.		WIND.			
Month	Date.	Maximum in sun.	Mean pressure baro at 32° Fah.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain	WHATHER.
80.		Θ	Inches.	$\Theta$	0	$\Theta$	0	$\Theta$	Inches	$\Theta$	%			Inches	
an.	25th	131.9	30.107	61.4	74.8	26.3	48.5	53.9	0.324	47.0	60	Till 2 A.M. N W by W, till 10 A.M. N W by N, till midnight N.	114	Nil	Clear, ea.
,,	26th	132-9	*075	64.4	76.8	21.9	54.9	56.9	.369	50-6	62	Till 9-30 A.M. N, till 3 A.M. N by E, till midnight N E by N.	120		Clear, to.
.,	27th	134.8	-053	65.5	79.2	23.5	55.7	59.0	*416	53.8	68	Till noon N E by N, till 1-30 P M. W by N through N and N W, till 3-45 P.M. N E by N through N W and N, till 7-30 P.M. W by S through N and N W, till midnight N N W through N W.	75		Chiefly clear, w
	28th	136-7	*072	65.1	78.8	24.5	54:3	58.6	410	53.4	68	Till 8 A.M. N N W, till 11-45 A.M. E NE through N and N E, till midnight S W through N, N W and W.	55		Clear, so.
,,	29th	136.9	.091	65.29	79.0	24:3	54:7	58.8	416	53.8	69	Till 8 A.M. S W, till mid- night W N W.	60		Clear, f & w.
,,	30th	135.1	.099	65.5	79.0	24.7	54:3	58.6	*406	53.2	68	Till 10 A.M. W N W, till 3 P.M. N N W, till midnight N W by N.	48		Chiefly clear, f
99	Blst	135-2	.085	65.2	79.7	26.4	53.3	58.0	-385	51.7	64	Till noon N W by N, till midnight W N W through N W.	85	-	Clear, w.

	The mean pressure of the seven days The average pressure of the corresponding period for 24 years, S. G. Office		Inches. 30.083 29.996
	The average presents of the corresponding period for 24 years, 5. G. Omce		29.990
			0
	The mean temperature of the seven days		64.7
	The average temperature of the corresponding period for 24 years, S. G. Office	***	68:7
	The extreme variation of temperature during the seven days	***	31.2
	The maximum temperature during the seven days		79.7
	[1987] 영화 - 시마시 이 그는 그는 그는 그는 사람들이 모든 그는 그는 그는 그는 그를 가지 않는 것이다.		%
	The mean relative humidity during the seven days		66
	The average relative humidity of the corresponding period for 24 years, S. G. Office		71
3	[[[[[[]		Inches.
	The total fall of rain from 25th to 31st January 1880		Nil
ė	The average fall of the corresponding period for 24 years, S. G. Office		0.22
	The total fall from 1st to 31st January 1880		0.05
	The average fall of the corresponding period for 24 years, S. G. Office		0.39
	[1922] 2024년 1일 - 1일 - 1일 - 1일		

The mean pressure, temperature, &c., are deduced from the traces of the barograph and thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86,

formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction and movement of the wind are taken from the trace of a Beckley's anemograph. The mouth of the rain-gauge is one foot above the ground. w dew, & whirlwind, f fog.

METEOBOLOGICAL OFFICE, INDIA, The 2nd February 1880.

HENRY F. BLANFORD, Meteorological Reporter to the Government of India.

#### Reports of Fluctuation of Traffic on the Eastern Bengal Railway for the four weeks ending the 27th December 1879.

Report on Goods Traffic for the four weeks ending the 27th December 1879. EASTERN BENGAL RAILWAY COMPANY, TRAFFIC SUPERINTENDENT'S OFFICE, SEALDAH TERMINUS. Dated Calcutta, the 19th January 1880.

From—The Traffic Superintendent, Eastern Bengal Railway, To—The Agent, Eastern Bengal Railway.

We carried during the above period 7,01,799 maunds, as compared with 5,61,958 maunds for the same period of the previous year, showing an increase of 1,39,8:1 maunds. This increase was chiefly in grain, including rice, jute in drums, European piece-goods, salt, sugar, tea, tobacco in bundles, and miscellaneous goods.

The following items show the largest decrease, viz. jute in bales, railway materials, and seeds.

			-	,			
	Market Land Market	Increases.					
	Grain, including rice				Mds	24,829	
200	. Itis increase is probably owing to merchant	ts baying retained a l	arge stock of	the prev	One veer's are	n in hand mand!	ng
ti	ne result of the narvest of 1879, which, turning our	t good and plentiful,	they are no	w anxiou	is to dispose of	their stock before	Te
ti	ne market falls.						
	Jute in drums	***			Mds.	81,058	
	This increase is owing to the comparative latene	ess of the season, and	to the genera	lly increas	sed activity in	trade	
	Piece-goods, European			-	Mds	7.174	
	Inis is owing to the revival of trade and genera	illy improved condition	on of the neor	ale.			
10	Salt This is owing to the present low rates for fre				Mds.	20 628	
	This is owing to the present low rates for fre	ight, and transport by	water to ma	ny places	being impract	icable at this the	~~
of	f the year.		,	- J Passon	oung impiner	readic at this til	100
	Sugar	***			Mds.	4,240	1
	This is owing to the rise in the market.				212 (45.	2,220	
	Tea	***			Mds.	4.269	
	This is also owing to the rising rates in the mar	ket, and the increased	European de	mand.			
		***	***	***	Mds.	8,290	
	This is owing to increased demand.						
	Miscellaneous goods		***		Mds	37,407	
	This is in a great measure owing to the diversion	by the Northern Be	engal State R	ailway of	the traffic that	used formerly t	0
nı	nd its way by water to the districts now served by	that railway.					
		Decreases.				20.00	
	Jute in bales				Mde	. 45,254	
	This is owing to most of the jute being now pre	ssed in Calcutt a.	***	***	*** 200	30,203	
	Seeds				Mde	3,534	
	This is owing to the destruction of crops by th	e recent floods.			11, 24 (15.	0,00%	
	I attach the usual statement of increases and d	ecreases.					
	NORTH STATE OF THE PROPERTY OF						

#### EASTERN BENGAL RAILWAY.

Statement showing Increases and Decreases in maundage of Staples carried over the line for the four weeks ending the 27th December 1879, as compared with the corresponding period of 1878.

Descript	TION.		Down.	Down.	Up.	Up.	Total.	Total.	Income	
(m)-1 (m)			1878.	1879.	1878.	1879.	1878.	1879.	Increase.	Decrease
Ale, beer, wine, &c., Cotton, bundles of Do., bales of Grain, including rice Gunny, bundles of Do., bales of Hides, bundles of Do., bales of Jute, drums of Do., bales of Piece-goods, European Ditto, Indian Railway material, forei Salt			6 406 1,372 10,123 1,696 12,993 15,954 848 2,52,282 76,088 	280 	1,020 219 93 4,740 1,011 5 3,753 62 26,758 16.891 29,560	1,952 43 302 6,097 1,387 121 207  33,776  15,126 56,488	1,028 625 1,465 14,863 2,707 12,993 15,959 848 2,56,015 76,150 26,758 158 16,891 29,560	1,952 323 302 39,692 3,290 8,405 15,510 886 3,37,073 30,896 33,932 4 15,126 56,488	926 24,829 583 38 81,058 7,174	4,588 449 45,254 1,765
Seeds Sugar Fea, European Do., Indian Tobacco, bundles of		 -	 10,852 128  10,182 8,007	7,147 216 14,559 16,156	2,888 541 158 494	3,059 4,693  50 635	13,740 669  10,340 8,501	10,206 4,909 14,609 16,791	4,240 4,269 8,290	8,63
Do., bales of Furmeric Fwist, European Do., Indian Miscellaneous			1,912 6 16,630	1,532 841 15,538	149 3,168 50,825	32 4,138  89,324	2,061 3,168 6 67,455	1,564 4,138 841 1,04,862	970 835 87,407	49
		Total	 4,19,623	4,84,389	1,42,335	2,17,410	5,61,958	7,01,799	1,97,547	67,70
							**	5,61,955	67,706	
						Incre	ease	1,39,841	1,39,841	

#### Report of Fluctuation of Traffic on the Tirhoot State Railway for the month of December 1879.

The total quantity of goods carried during the month of December 1879 aggregated maunds 2,02,172 as compared with maunds 2,08,420 carried during the corresponding period of 1878, and maunds 1,73,522 carried during the previous month, shewing a decrease of maunds 6,248 in the one case and an increase of maunds 28,650 in the other.

In considering the business transacted during this month it should be borne in mind the exceeding difficulties that had to be overcome by the Traffic Department in the interruption to the direct transit at the river Bya, and but for the enduring perseverance of the department, only a moiety of this total amount of goods could have been transported.

					Increases.					
	Hides and horns			199		***		449	Mds.	11,235
Th	e continued incres	ase in this	staple of	traffic is	lue to the h	igh prices a	nd demand	for shipm	ents to.	America and other
market										
	Indige e outturn of indige	W-12			0.0	(6)			Mds.	715
					usiness done		month is sa	tisfactory	214	007
,	Iron is solely depends up			1960	100			444	Mas.	225
Th	is solely depends up	pon local re	quirements	3.					Mds.	6,173
m	Piece-goods is is chiefly impor	t too 00 a 6	II ome	al and on	t of the tate	al amontite	R 194 mana 1	or hadon	Duchhu	nga and 6 963 to
Th.	as as chiefly impor	t traine in	torion of t	nn, and ou	t of the total	ii quantity	o,104 were i	JOOKEG LO	Durbha	nga and 0,200 to
Mozum	erpore for conveyan	ce to the m	terior of	mis district	90		- 4		Mds	16,270
	Seeds, oil the commencement	of the ma	oth the me	nkote were	somewhat I	wisk and e	anged a move	ment day	enwards	of this particular
staple.		of the mo	itii the mi	irkets were	BOILION LIAC .	rion, and c	auseu a move	ment do	TE WILLIAM	or care particular
stapie.	Salt		100			**1	· 20:		Mds.	5.154
A 16	hough an increase,	merchants	could not	import as n	anch salt as	they intend	led owing to	the salt	rolahs be	ing closed during
the caz	etted holidays.	there is the same	court post.	impore us a				9		
the gan	Saltpetre							· · · · ·	Mds.	10,156
Th	ere was an active de	emand in th	e Calcutta	markets v	there prices	rose.				
	Tobacco						***	***	Mds.	4,581
Th	is is the balance of	last year's	crops.							
	Miscellaneous goo					***		***	Mds.	7,273
Th	e increase on this st	taple is stea	dy.							
					Decreases.					- 1000
	Coal			***	***	***	***	*** 2	Mds.	7,060
A I	nominal decrease.							X,	***	
	Food-grain					,				50,830
Ow	ing to the abunda	int harvest	throughou	it the coun	try, the pric	es have be	en lower in	Calcutta	than in t	the local markets,
and the	grain has been stor							St. 7	***	
	Railway material					***	***		Mds.	5,831
De	pends upon railway	works unde							Mr.d.	0.400
	Seeds, indigo			***	***			****	Mds.	2,408
	st year's import was								Mds.	1 001
mi.	Sugar s is owing to the fa	lune of the	111	Mmono in ti	ha district o	wing to the	hoovy flood	***	Mus.	1,901
	s is owing to the fa-	nure of the	sugarcane	crops in t	ne district o	wing to the	neavy nood			

TIRHOOT STATE RAILWAY.

TRAFFIC DEPARTMENT.

Statement showing Increases and Decreases in Maundage of Staples carried over the Line during the month of December 1879, as compared with the corresponding period of 1878.

***	8 4				1878	3.	187	9.	1878.	1879.		
2.	STAPLI	es.			Up.	Down.	Up.	Down.	Total.	Total.	Increase.	Decrease.
Coal Food-grain. Hides and he Indigo Iron Piece-goods Railway mate Seeds, indigo Seeds, oil Salt Saltpetre Sugar Tebacco Miscellaneous	rial				10,585 6,555 3 1,856 9,672 814 2,408 27 19,831	453 78.171 3.963 13.972 201 82 7,094 16.395 472 16.818 2.504 5.927 6,989	3,078 2,974 66 2,166 15,807 915 93 21,098 227 295 9,155	900 30,922 15,185 14,667 116 120 1,162 	11,038 84,726 3,966 13,852 2,057 9,754 7,908 2,468 16,332 20,303 16,818 2,584 5,927 10,647	3,978 33,896 15,291 14,607 2,282 15,927 2,077 82,602 25,457 26,974 683 10,568 17,920	11,235 715 295 6,173 16,270 8,154 10,156 4,581 7,273	7,060 50,830  5,831 2,408
and the	4	1900 -			55,489	1,52,931	55,784	1,46,588	2,08,420 2,02,172	2,02,172	61,782	68,680 61,788
and the second		Decre	ase :	***					6,248		*****	6,248

SQMASTIPOBE, the 22nd January 1880.

W. M. JOHNSTON, Traffic Supdt.

#### Report of Fluctuation of Traffic on the Patna and Gya State Railway for the month of December 1879.

The approximate quantity of goods carried during the month of December 1879 aggregated maunds 1,21,781 as compared with maunds 1,17,720 carried during the previous month, showing the satisfactory increase of maunds 7,061.

PATNA AND GYA STATE RAHLWAY.

TRAFFIC DEPARTMENT.

Statement showing Maundage of Staples carried over the Line during the month of December 1879.

		Su		1	878.	18	79.	1878.	1879.		1000
STAPLE	в.			Up.	Down.	Up.	Down.	Total.	Total,	Increase.	Decrease
Coal						4,030 4,223	42,049		4,030 46,272		
Hides and horns ron Piece-goods						6 359 1,964	1,826 59 30		1,832 418 1,994	*****	*****
Railway material account) Seeds, oil	(on	reve		*******		4,041 425	71	3*******	4,112 6,749		
alt altpetre		*		#		13,568	6,824 62 4,967	********	13,430 4,967	******	******
	***					750 704 2,314	17,770 56	*******	750 18,474 2,370	******	
iscellaneous goods			***	. Arracana		9,218	10,165	*******	19,383	4	*****

SOMASTIPORE, the 22nd January 1880.

W. M. Johnston, Traffic Supdt.

### Weekly Return of Traffic Receipts on Indian Railways.

### EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 24th January 1880 on 1,507; miles open.

	C	COACHING TRAI	FIC.	MERCHANDIS	E AND MINERAL TRAFFIC.		TRA	IN MILES	RUN.
	No. of passen- gers.	Coaching	receipts.	Weight" carried.	Receipts.	TOTAL TRAPPIC RECEIPTS.	Coach- ing.	Merchau- dise.	Total.
Total traffic for the week Or per mile of railway For previous 2 weeks of half- year	151,163 ************************************	Rs. A. P. 2,83,569 5 3 188 2 2 5,94,809 14 0	£ s. d. 25,993 17 1 17 4 11 54,524 4 9	Mds. 6. 15,05,716 20  36,09,020 20	Rs. A. P. £ s. 6,39,149 3 0 58,588 13 424 0 10 38 17 15,33,509 2 0 140,571 13	d. Ra. A. P. 6 922,718 8 3 5 612 3 0 5 21,28,319 6 9	52,967) 126,\$25}	192,0251	155,003 394,354
Total for 3 weeks	505,682	8,78,379 3 3	80,518 1 10	51,14,737 0	21,72,658 5 0 199,160 6 1	30,51,037 8 3	179,498	359,8641	589,357
COMPARISON.  Cotal for corresponding week of previous year.  Per mile of railway, corresponding week of previous year colal to corresponding date of	195,2943	2,97,085 13 9 197 1 8	27,232 17 6 18 1 4	16,04.086 0	6,41,120 15 0 58,769 8 425 5 9 38 19	4 9,38,206 12 9 10 622 7 5	52,386	123,119	175,498
previous year	551,743	8,36,275 2 5	76,658 11 2	54,99,995 30	22,74,429 5 10 208,489 7	1 31,10,704 8 3	189,609	435,248	624,85

#### EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 24th January 1880 on 1714 miles open.

14120		COACHING	TRAI	TFIC.	MERCHAND	SE AND M	INERA	L TRAF	RIC.	1	Tot	ted.
	Number of passengers.	Cor	chin	receipts.	Weight carried.		Recei	pts.		6.0	recei	Control of the
		Rs.	A. P.	£ s. d.	Mds. s.	Bs.	A. P.	£		ä.	a	s
Total traffic for the week	46,531½ 293 95,314	35,727 208 73,340	$\begin{array}{ccc} 0 & 0 \\ 0 & 3 \\ 0 & 0 \end{array}$	3,274 19 6 19 1 4 6,722 16 8	2,40,500 0 1,404 15 5,01,913 0	42,742 248 93,085	13 10	3,918 22 8,528	16	4 5 2	7,198 41 15,251	17 3
Total for 4 weeks	141,8453	1,00,067	0 0	9,997 16 2	7,42,413 0	1,35,777	0 0	12,446	4	6	22,444	0
COMPARISON.  Total for corresponding week of pravious year Per mile of railway, corresponding week of previous year  Total to corresponding date of previous year	47,446½ 299 140,520½	34,609 218 1,06,403	0 3	19 19 9	1,73,868 25 1,095 9 5,43,285 23		11 2 5 4 0 7	18	8	9 7 2	6,058 38 19,110	3

#### BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

No. 51.

Latest return received.	Name of Railway.	Length open.	RECEIPTS FOR WEEK ENDING		TOTAL RECEIPTS FROM 1ST JANUARY			Total
			21st December 1878.	20th December 1879.	To 21st December 1878.	To 20th December 1879.	Total increase in 1879.	decrease in 1879.
20th December 1879 10th January 1880 17th dutto " 20th December 1879 3rd January 1880	Tirhoot Calcutta and South-Eastern	Miles.  230 82 28 27 57	Rs. A. P. 27,906 0 0 9,523 0 0 2,105 0 0 1,534 0 0	Rs. A. P.  43,529 0 0 11,800 0 0 2,000 0 0 1,714 0 0 6,619 0 0	Rs. A. P. 8,88,527 0 0 4,31,425 0 0 1,22,085 0 0 87,471 0 0	Rs. A. P.  12,84,936 0 0 4,33,815 0 0 1,26,640 0 0 88,862 0 0 2,16,609 0 0	Bs. A. P. 3,96,409 0 0 2,390 0 0 4,555 0 0 1,391 0 0 2,16,609 0 0	Rs. A. P
40.00	Total	4241	41,068 0 0	65,663 0 0	15,39,508 0 0	21,50,862 0 0	6,21,354 0 0	*****